4 Channel
Network Video Recorder

User's Manual v1.0

Table of Contents

Copyrights & Trademarks 3
System Requirements 4
Product Description 5
Hardware Illustration 6
LEDs and Buttons 7
Hard Drive Installation 9
Connect to the NVR 10
1. Live View 14
1.1 Retrieve camera's video stream 15
1.2 Retrieve camera's status 15
1.3 Perform Sequence Viewing 16
1.4 PTZ Control 17
1.5 Perform PTZ Preset Viewing 18
1.6 Live Video Control Buttons 20
1.7 Change Web UI Display Language 23
2. Playback 24
2.1 Methods to Search Playback Videos 25
2.2 Export Playback Videos to AVI Files 31
2.3 Play Exported AVI Videos With NVR Media Player 33
3. System Setup 35
3.1 System Configurations 35
3.1.1 Network Settings 35
3.1.2 Time and Date 37
3.1.3 User Account 38
3.1.4 Group Privilege 39
3.1.5 Disk Setup 41
3.2 Channel Configurations 42
3.2.1 Add a Camera 42
3.2.2 OSD Settings 45
3.2.3 PTZ Preset Settings 46
3.2.4 PTZ Preset Sequence 47
3.2.5 E-Map Monitor 48
3.3 Event Configurations 50
3.3.1 General Settings 50
3.3.2 Event Servers 52
3.3.3 Event Triggers 56
3.4 Recording Configurations 58
3.4.1 General Settings 58
3.4.2 Schedule Recording 60
3.5 System Options 62
3.5.1 Device Information 62
3.5.2 Logs and Reports 63
3.5.3 Maintenance 63
Reboot the NVR 64
Reset the NVR to Factory Default 65
3.5.4 Disk Status 66

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All names of people and organizations used in this documentís examples are fictitious. Any resemblance to any actual organization or person, living or dead, is purely coincidental and unintended.

System Requirements

The following are minimum system requirements for the system to operate Embedded Network Video Recorder (ENVR):

Operating System

Microsoft® Windows® 2000 Professional, Windows® XP Professional (32 bit) or Windows® Server 2003 (32 bit)

Browser

Microsoft Internet Explorer 6 or above

CPU

Minimum Intel® Pentium® 4 2.4 GHz or higher (Dual Core is recommended)

RAM

Minimum 1 GB of RAM, 2GB or above is recommended

Network

Minimum 10/100 Ethernet (Gigabit Ethernet is recommended)

Graphics Adapter

AGP or PCI-Express, minimum 1024×768, 16 bit colors.

(We highly recommend to work above the 1024 x 768 resolution to get the full experience of the software)

- ***Make sure your display DPI setting is set to default at 96DPI***
- ***To set DPI value, right-click on desktop, choose "Settings" tab >> "Advanced" >> "General"***

Contents Inside the Installation CD

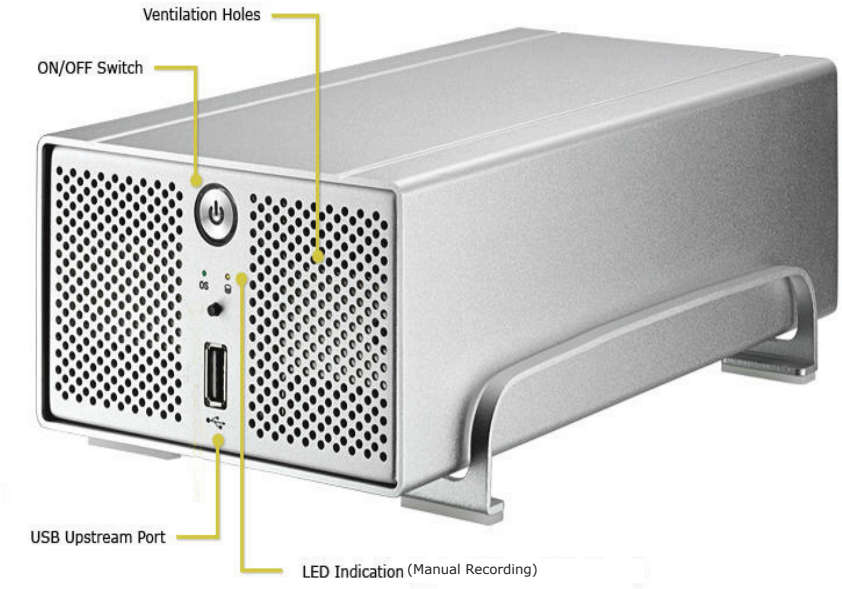
- Adobe Acrobat Reader
- NVR Search Utility
- User's Manual
- Quick installation Guide
- Datasheet

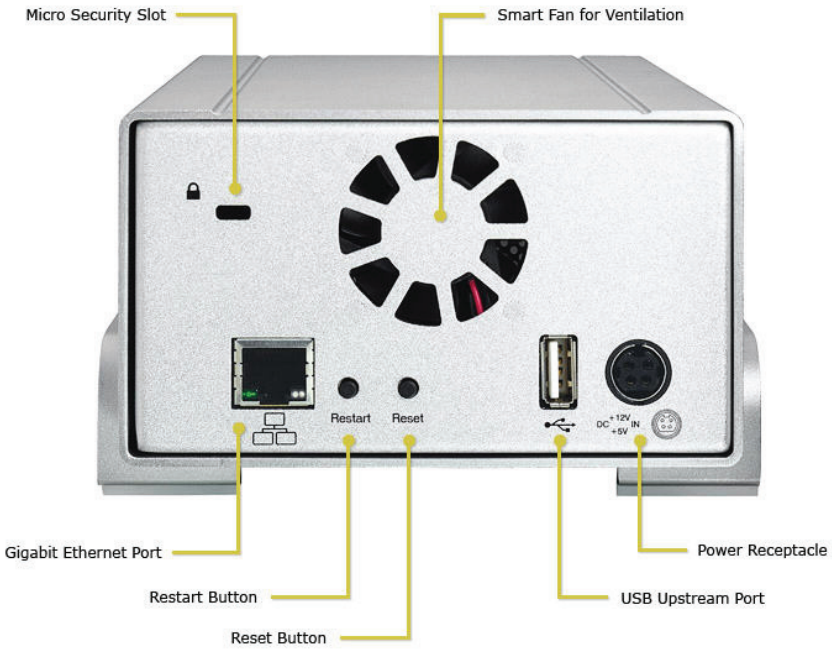
Product Description

The SEEnergy SVR-104 Basic is designed for use within a surveillance system, and performs recordings and playbacks pictures from network cameras in the system. It is designed for small scale applications such as retail store. Up to 4 cameras can be connected via a network and it is possible to record their camera pictures. It is possible to perform the settings or operate the NVR using a web browser installed on a PC connected to a network and live videos can be viewed on major mobile devices through its web browser. Recorded video can be played back from remote site by a PC. SVR-104 Basic is compatible with most major brand cameras and its ability to automatically search and fnd the available cameras on the network can greatly reduce the user's effort when confguring the system.

- **Manage up to 4 Network Cameras**
- **Compatible with Major Brand Cameras**
- **High Quality Live/Playback Video**
- **Export Playback Videos to AVI**
- **Two-way Audio**
- **SEEnergy Smart Camera Search**
- **Mobile Devices Remote Monitoring**
- **Pure Web Based Administration**

Hardware Illustration





LEDs and Buttons

Power Button: (Blue when ON) Press to turn on/off the system
Front LEDs:

green	yellow
1. OS	2. HDD

OS LED
Solid green: System ready
Off: System Off
Blinking:
1. ***System shutting down***

2. ***Upgrading firmware***

a) **Through USB drive**: Blinking indicating the upgrade is in process. Once firmware upgrade completes, the LED goes off. Manually turn off the power and turn it back on would be required afterwards.

b) **Through the web UI**: Blinking indicating the upgrade is in process. Once firmware upgrade completes, the LED goes off. The NVR will then restart automatically. Once it finishes restarting, the LED should turn to solid green to indicate the system is now ready.

3. ***Restoring previously saved configuration file***

a) **Through USB drive**: The LED should blink to indicate the process has started. The LED will then go off to indicate the process is complete. Manually turn off the power and turn it back on would be required afterwards.

b) **Through Web UI**: The LED should blink to indicate the process has started. The LED will then go off to indicate the restoring is complete and the system is restarting. The OS LED should indicate in solid green once the system becomes ready.

Recording LED
Solid amber: recording
Off: not recording
Blinking: Manual recording:
When "manual recording button" is pressed
** To start manual recording with the "manual recording button", press and hold the button for 2 seconds then release it. Follow the same procedure to stop.*

Ethernet Port LED

The green LED on the left indicates the link connection and the LED on the right indicates the speed

Speed	green	yellow	green	yellow
	10Mbps	1000Mbps	100Mbps	

Restart Button

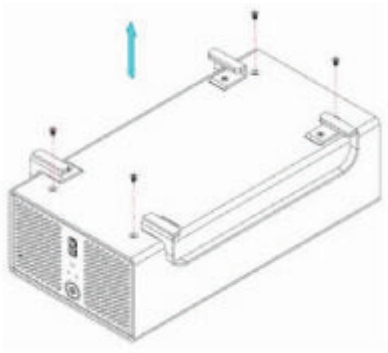
Press and release the button for hardware re-start. The OS LED should should go off during the restart to indicate the system is restarting. The LED should indicate in solid green once the system becomes ready.

Reset Button

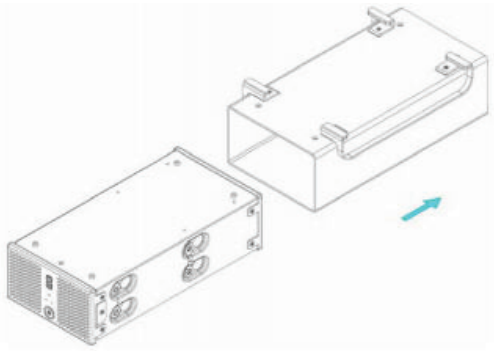
Press this button will restore the system's settings to factory default values. To start, press and hold the button for 5 seconds then release it once the OS LED goes off. The OS LED should indicate in solid green once the system becomes ready.

Hard Drive Installations

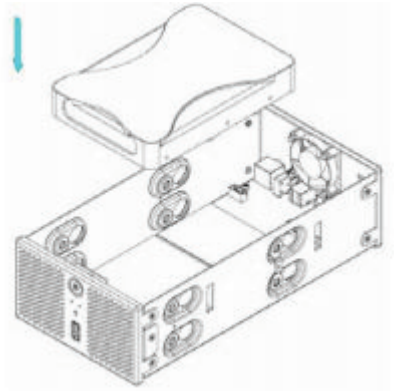
1. Remove the four screws from the bottom of the case.



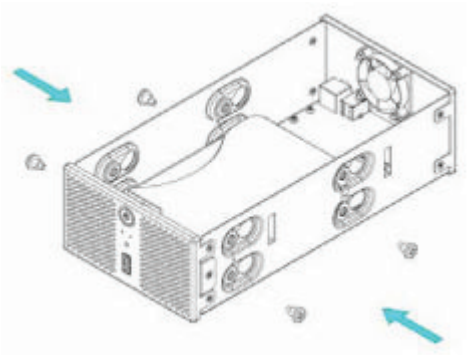
2. Push the inner enclosure out, and remove the outer chassis.



3. Install the first hard drive by placing it in the enclosure and connecting the SATA plus power cables.



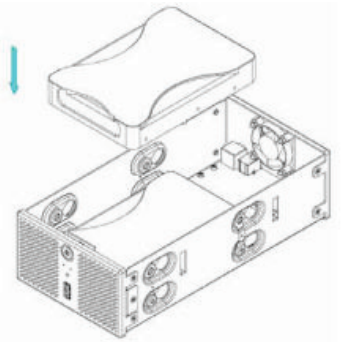
4. Mount the drive with two screws on each side.



5. Attach the thermal probe with the tape provided to the first hard drive.

Choose a location in between the two drives but without damaging the thermal probe when installing the second drive.

6. Install the second hard drive by placing it in the enclosure and connecting the SATA plus power cables.



Connect to the NVR

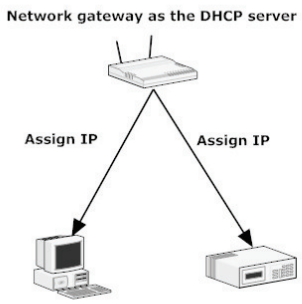
There are various ways you can connect to the NVR and below are the suggested methods for different network setup:

- The NVR is placed in a network with a DHCP server: Connect to the NVR by using **"NVR Search" Utility**
- The NVR is placed in a network without DHCP server (or you are connecting to it directly): **Access NVR with its default IP**

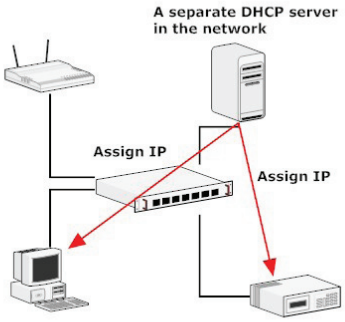
Use NVR Search Utility

If the NVR is placed in a corporate network or a local area network where a DHCP server is already presented, install the "NVR Search" utility on the CD from a computer that is on the same network and locate the NVR with its IP address that is assigned by the top-level DHCP server.

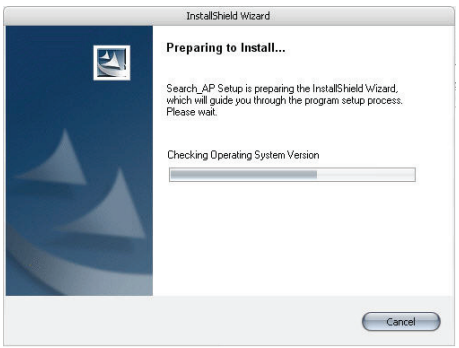
1.



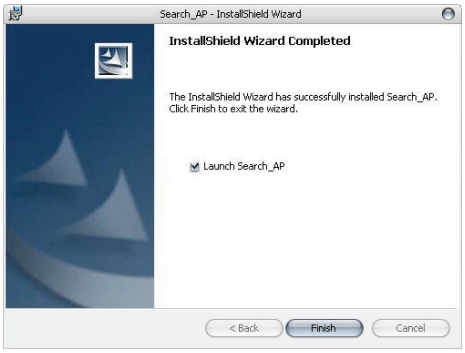
2.



To begin, launch the "NVR Search" utility from the CD and proceed with the installation:


InstallShield Wizard
Preparing to Install...
Search_AP Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
Checking Operating System Version
Cancel

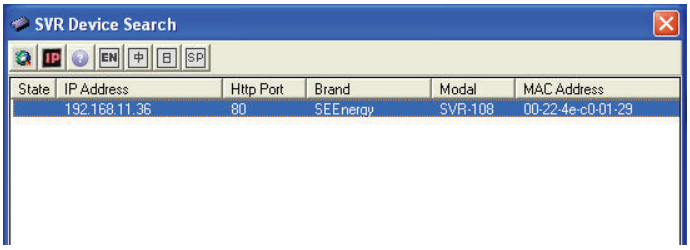
Once the installation is complete, check the "Launch the Search AP" option and click "Finish":



The search should start automatically and its status should be displayed:

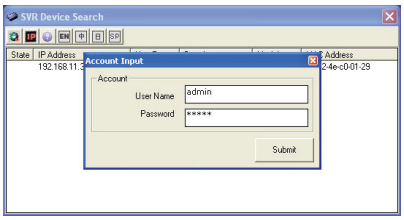
The NVR should be located and its IP address should be displayed:

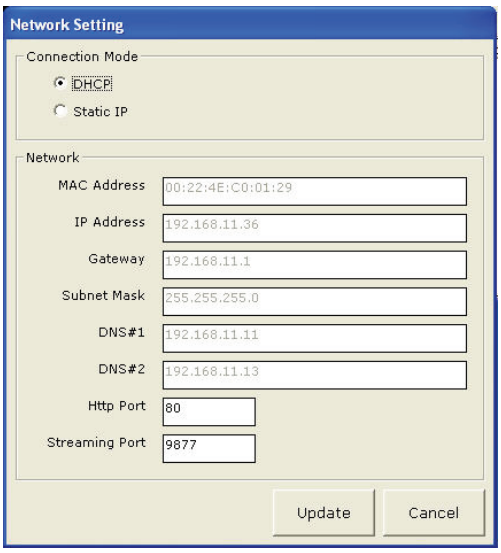
Double-click on it and the program should automatically access the NVR's web administration page from your default browser



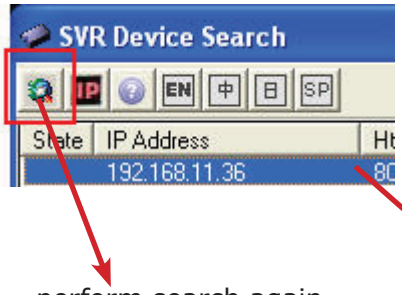
You may change NVR's IP address by click on the button highlighted below.

You will be prompted for the NVR's login information before proceeding to change device's IP address.





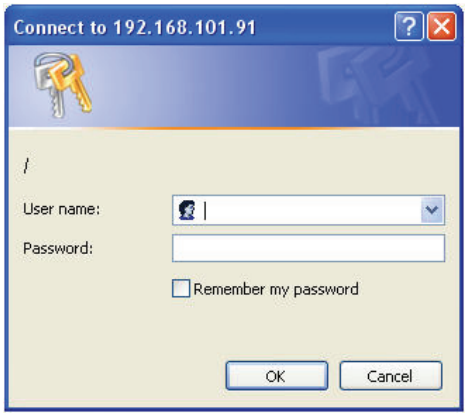
You may click on the button highlighted below to perform search again. Or double-click on any of the search results to access NVR's web administration page



perform search again

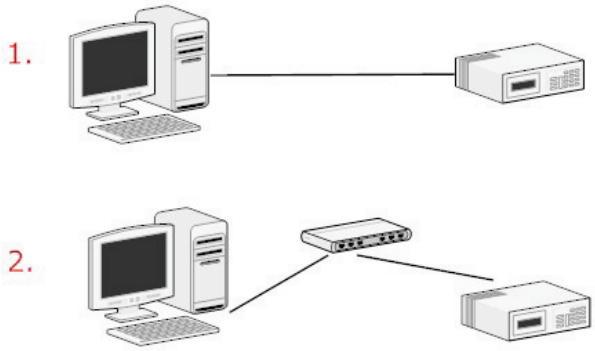
access NVR's web administration page

You should be prompted for the NVR's username and password. Enter its default username "**admin**" and password "**admin**" and then click"OK" to enter the system

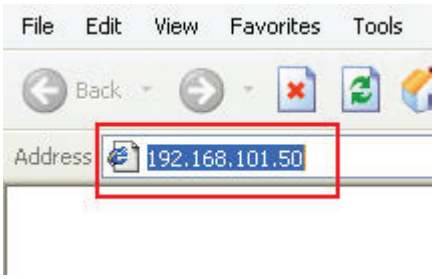


Access NVR with its default IP address

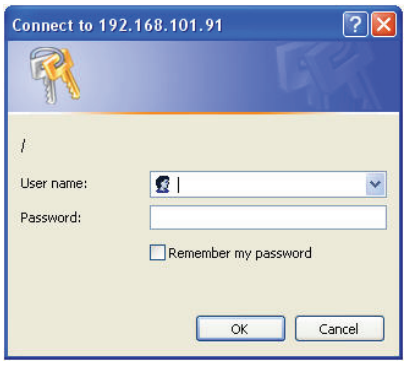
The NVR comes with a pre-configured static IP "**192.168.101.50**". However, it is only used when there is no DHCP server presented in the network. The NVR will turn on its DHCP server function and act as the DHCP server in the network. To connect to the NVR, use a PC that is on the same network over a switch or hub, or connect the PC directly to the NVR using a crossover CAT5 Ethernet cable.



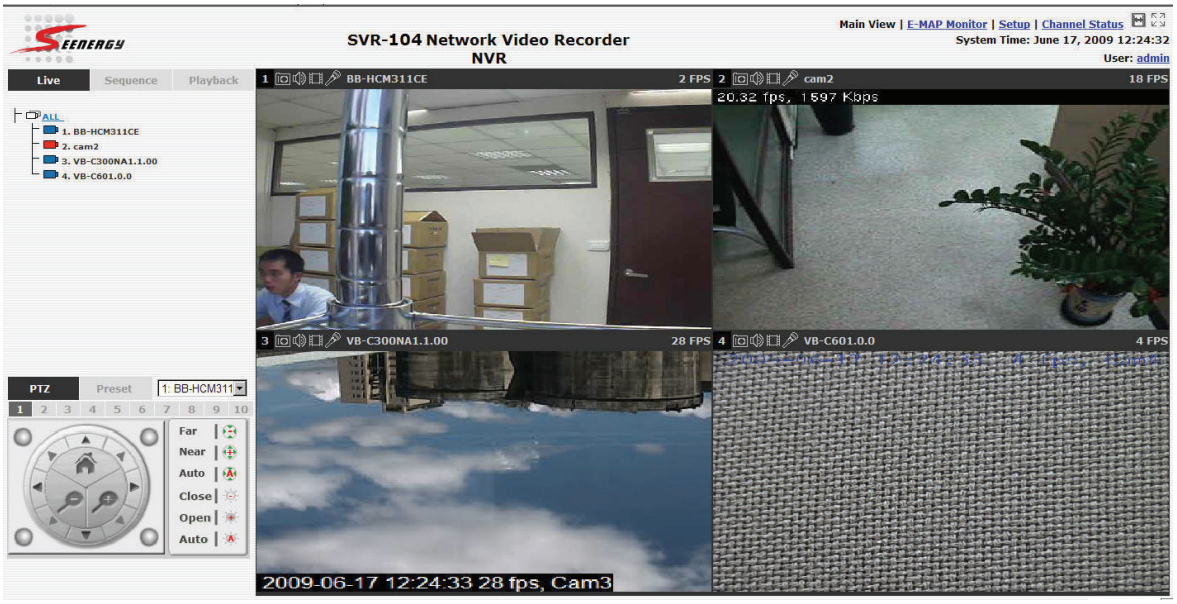
The PC that is connected directly to the NVR (or within the same local area network) should receive an IP from it. Simply access the NVR from your web browser with its IP address



Again, you should be prompted for the username and password. Enter its default username "**admin**" and password "**admin**" and then click"OK" to enter the system



1. Live View
SVR-104 Basic



The "Live View" page provides the following functions:

- Retrieve camera's video stream
- Retrieve camera's status
- Perform Live Sequence Viewing
- PTZ Control
- Perform PTZ Preset Sequence viewing
- Perform manual recording
- Take snapshot
- Receive audio of a video stream
- Send audio
- Control "Buzzer"
- Change web UI display language

1.1 Retrieve camera's video stream

The camera list is expanded and displayed on the Live View page.

- Click "All" to display videos in the quad-video mode
- Click on any camera to display video in single-view mode

1.2 Retrieve camera's status

The camera list can show each camera's current status. Each status is represented with different colors and their meanings are explained on the left

Camera is connected

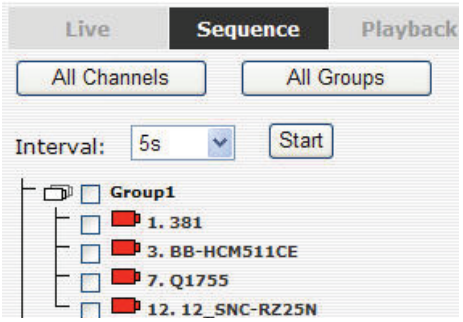
Camera is NOT connected

Camera is current performing recording

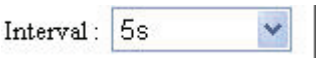
1.3 Perform Sequence Viewing

Sequence view is a function that allows you to view multiple video streams from certain cameras in sequence automatically without having to select them one by one.
To perform sequence view, select "SEQ View" from the upper-left hand corner

Next, select one or more camera(s) or camera group(s) for sequence viewing



Then select dwell interval from the drop-down menu

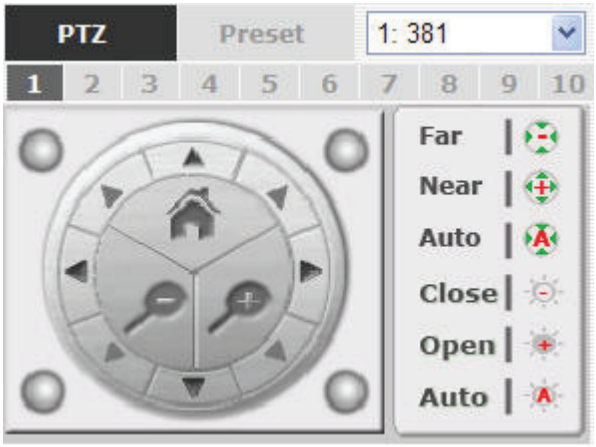


Finally click "Start" to start sequence viewing

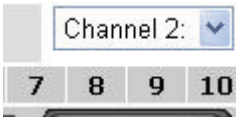
** Click "All Channels" to quickly select all available channels and start sequence view in single-view mode.*

1.4 PTZ Control

PTZ control provides functions to pan, tilt, zoom a PTZ camera as well as the ability to adjust camera focus and iris



Camera(s) that are currently being selected for live viewing will be listed in the PTZ drop-down menu. Simply select a camera then use the PTZ control panel to control the camera

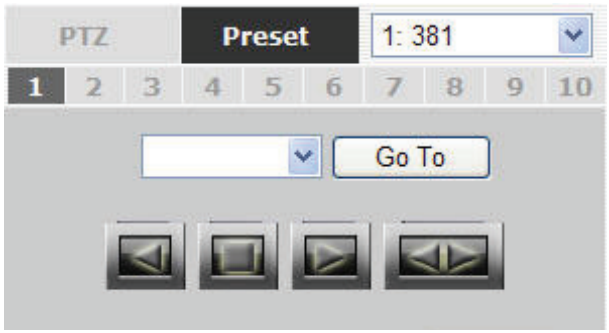


The bar shown below allows you to control the pan/tilt speed

1.5 Perform PTZ Preset Viewing

There are three functions provided in the "Preset" section:

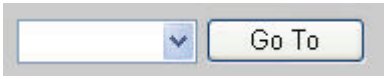
- Perform preset point viewing of a particular camera
- Auto pan a particular camera
- Perform preset point sequence viewing



Preset Point Viewing

Start by selecting a PTZ camera from the drop-down list:

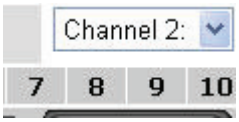
Its available PTZ preset points will be listed in the drop-down list shown below:



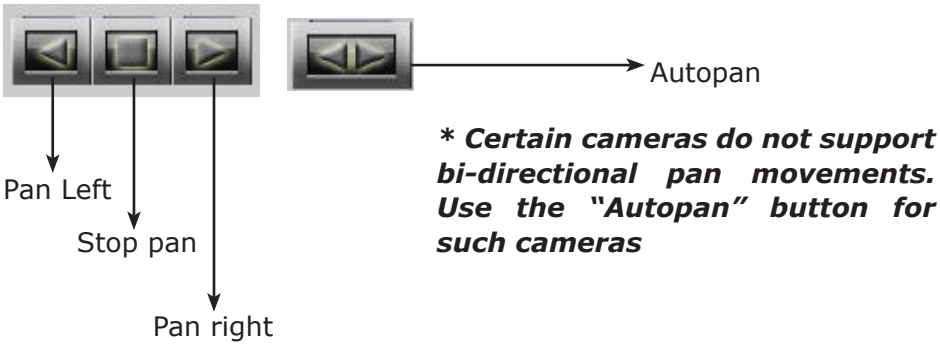
Select a preset position from the drop-down list and click "Go to" to move the live view to that position

Auto Pan Viewing

Start by selecting a PTZ camera from the drop-down list:



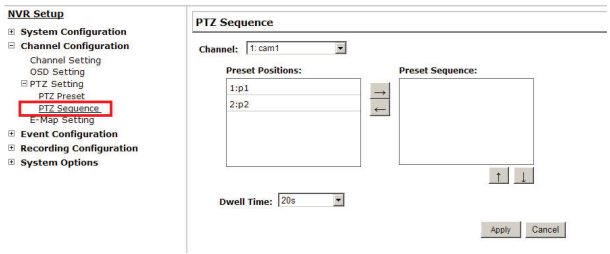
Use the Auto Pan control buttons to pan right, left and stop auto pan



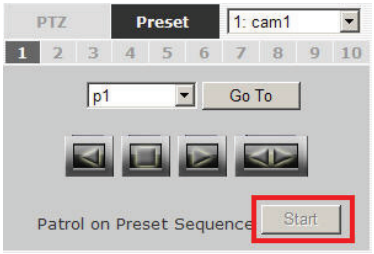
**** Certain cameras do not support bi-directional pan movements. Use the "Autopan" button for such cameras***

Preset Point Sequence Viewing

This function allows you to view multiple preset points from a video of a camera without having to select them one by one. Once you have defined the prefered preset points in "**Channel Configurations**" >> **"PTZ Setting"** >> "**PTZ Sequence**" under the "**Setup**" menu, click "Start" in the lower-left hand corner in Live View under "Preset" and the recorder will begin to display videos from those preset points in sequence automatically until you click "Stop"



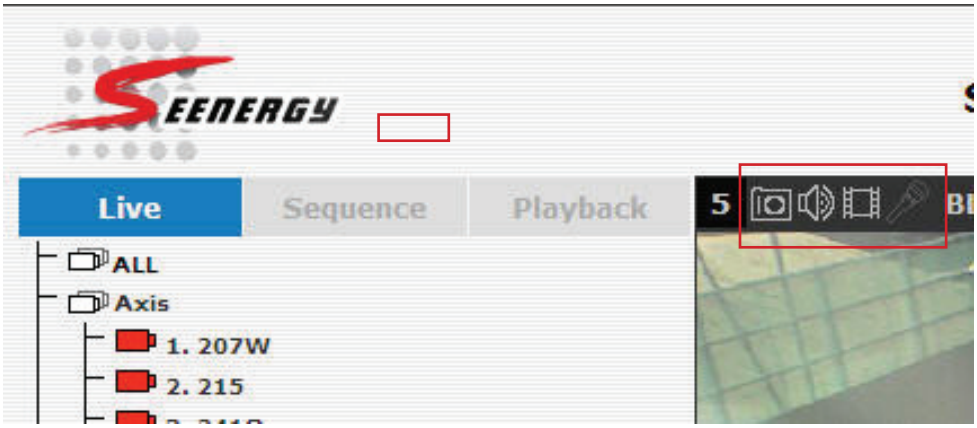
"In the Setup page"



In the Live View

1.6 Live Video Control Buttons

Each live video window comes with control buttons with functions described below:



Take a snapshot of a live video

Turn on/off audio of a live video

Start/stop recording of a live video (manual recording)

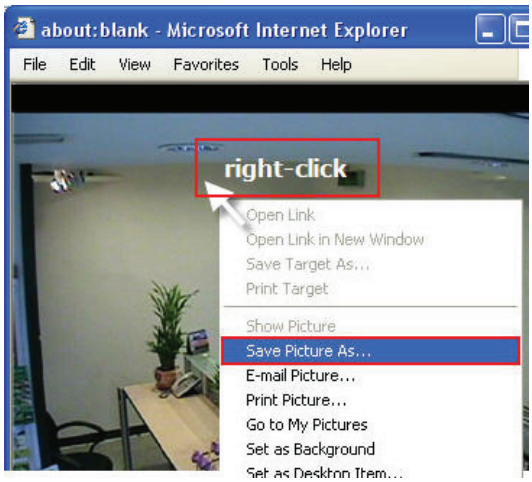
Audio post function

Full screen view of a live video

Display video in its original ratio

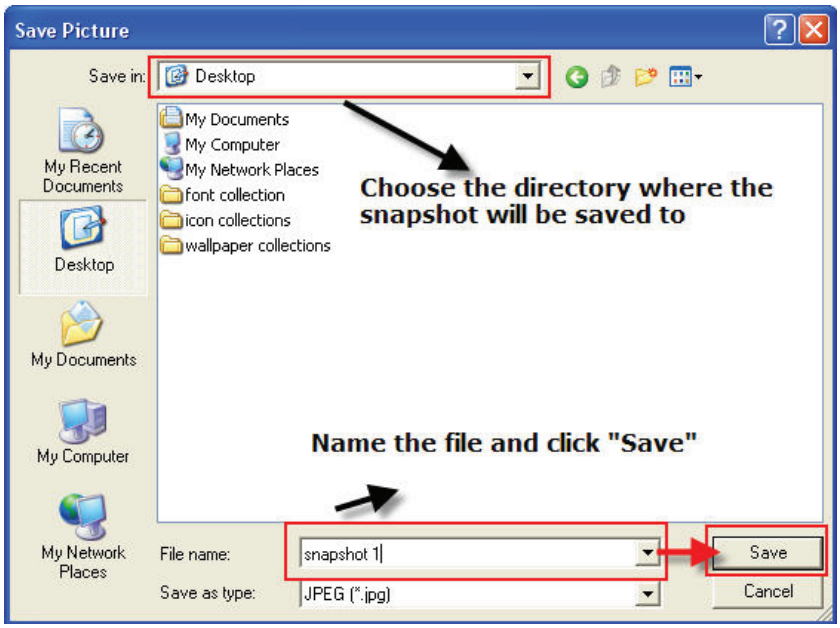
Take a snapshot of a live video

To take a snapshot of a live video, click the button and the snapshot of the video will be displayed in a pop up window shown like below



Right-click anywhere on the image and select "Save Image as" from the pull-down menu

In the pop up dialog, name the image file and choose which directory the image will be saved to and click "Save"



Full Screen View of a Live Video

To view a video in full screen, click the button. To exit full screen video, double-click anywhere on the video.

Turn On/Off Audio of a Live Video

You can retrieve audio from a particular camera. Simply click the button to do so.

The button will show in different color once the audio is turned on. Click on it again to turn off audio.

Start/Stop Recording of a Live Video

You can manually start or stop recording of a live video by using the button.

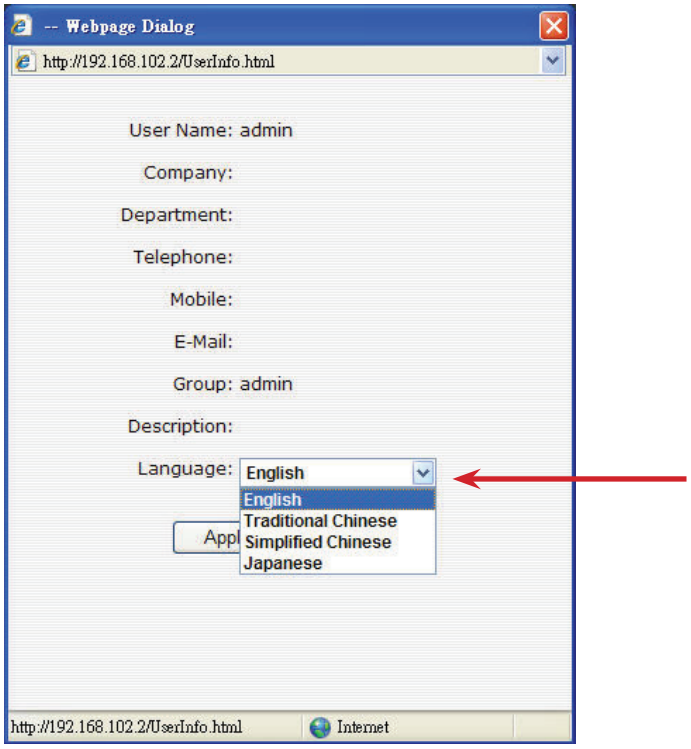
The button will show in different color once the recording is started manually. Click on it again to stop recording.

Audio post

This function allows user to speak from a PC through a microphone and the audio can be played at the camera side if it has a speaker connected to it.

1.7 Change Web UI Display Language

You can change the web UI display language from the current login username link located at the upper-right hand corner. Click on the link opens up a new window which displays detail information about the user as well as a drop-down menu which lets you change the displyay language.



2. Playback

Methods to search playback

Playback video control buttons

Channels to be played back

Playback video

Playback is a function that allows you to play one or more videos that were previously recorded by a chosen recording method or due to an event trigger. The NVR offers synchronized playback from up to 4 channels and various types of search methods are provided to help you find the footage you need quickly.

You can turn on or off the audio of a recorded video at your choice if audio was also recorded during the recording of the video.

Playback video can be viewed in full screen and snapshots can be taken and saved during a video playback.

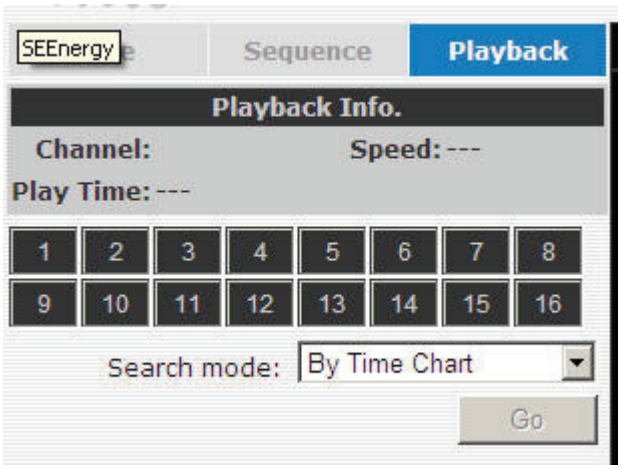
2.1 Methods to Search Playback Videos

The NVR offers three methods to quickly help users find videos that were previously recorded:

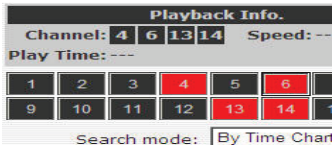
- Search by time: *Specifiy a time range and search videos recorded within that range*
- Search by event: *Find videos that were recorded due to event triggers*
- Play by start time: *Enter a specific time a video was recorded to start playing back the video*

Search by time chart

- Start by selecting which channel(s) you would like to perform a search on:

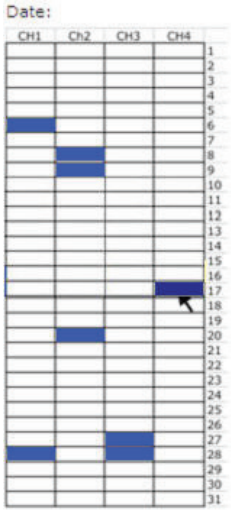


** Selected channels will be marked in red*

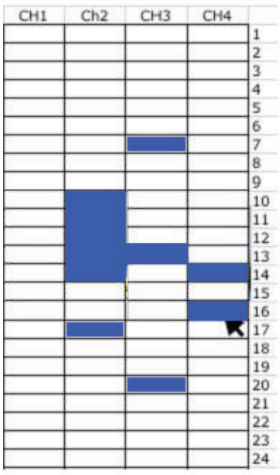


- Select "Search by time chart" from the "Search Method" drop-down list and click "Go" to start the search:

- Results will then be displayed in a "Date/Channel" table and boxes marked in blue represent videos found in those dates:

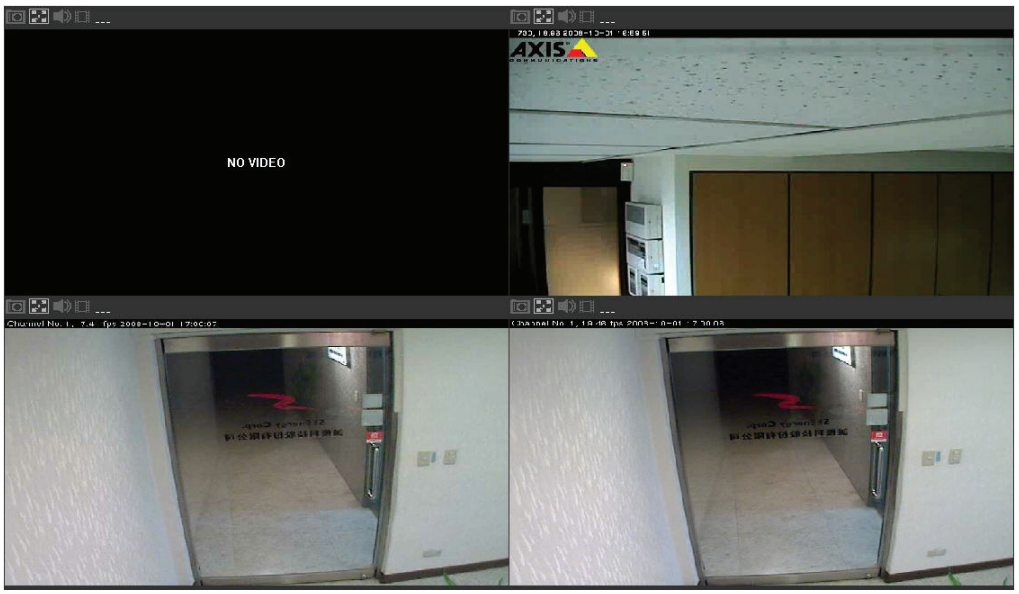


- Click on any blue cell box should direct you to the hour/channel table if there were multiple videos recorded during that date:



** Videos from other cameras that are recorded on the same date will also be displayed*

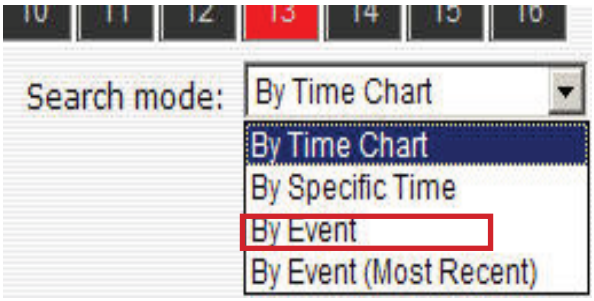
- Click on the cell box again will start playing back the videos if you have reached the end of search results:



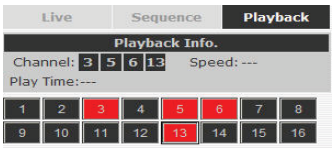
- Videos found from other cameras that were recorded at the same time will also be played.

Search by event

- Start by selecting which channel(s) you would like to perform a search on:

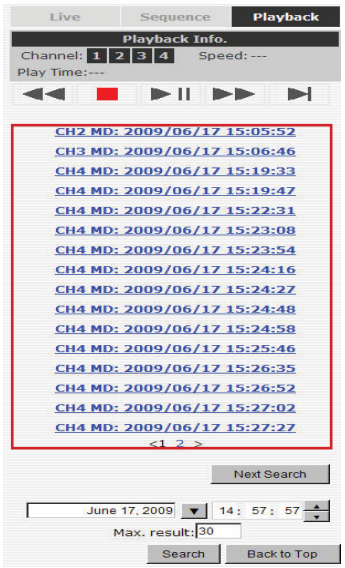


** Selected channels will be marked in red*



- Select "Search by event" from the "Search Method" drop-down list and click "Go" to start the search:

- Results will then be listed like what is shown below (displays the oldest record top down). Click on a particular result to start the playback:

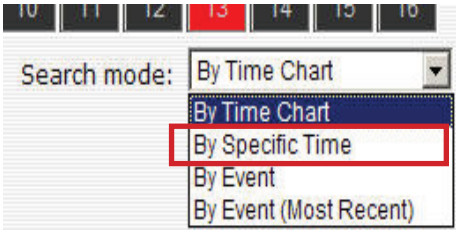


** You can cilck "Next Search" to display the next 15 results.*

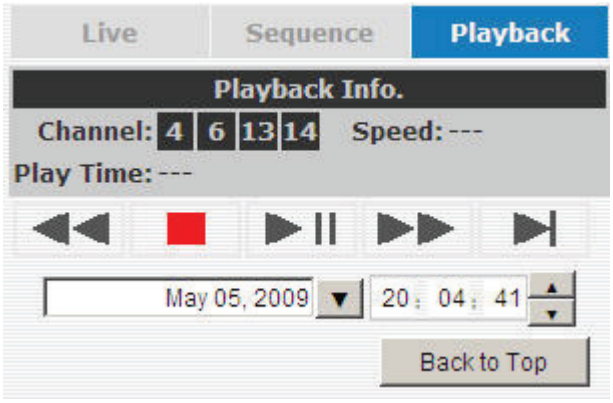
- You may also specify a new start time to search and display results from then on. You can restrict the number of results to be displayed at once (max. 30) and perform the search again

Play by specific time

If you know when a recording was taken place, you may choose the "Play by start time" from the "Search Method" drop-down list



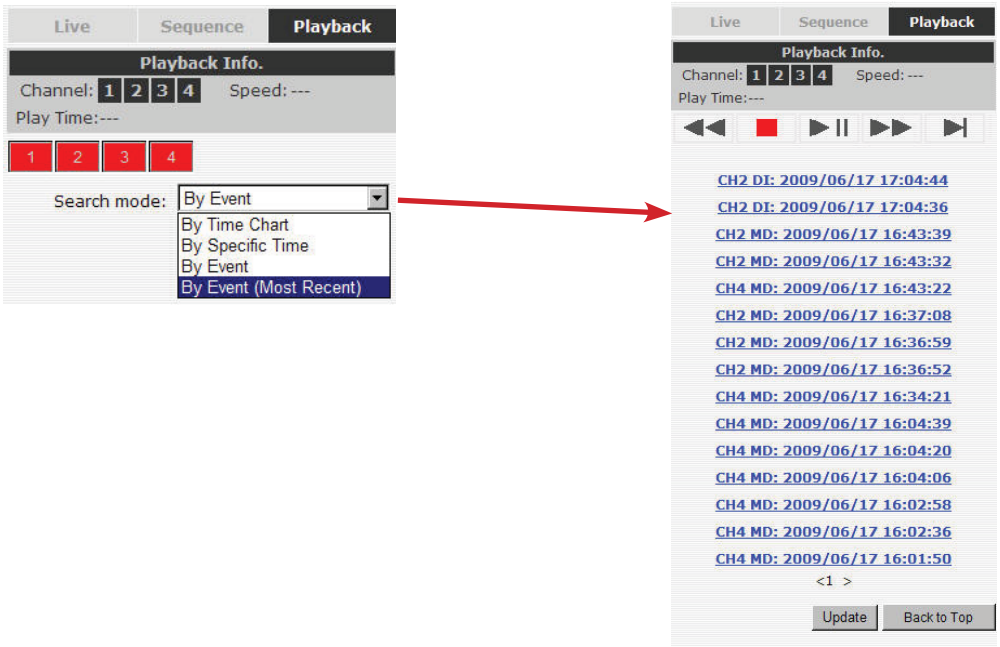
Then you will be prompted to enter a specific time and date for the recorded video.



Use the ▼ button to select month, date, and year

Search by event (Most Recent)

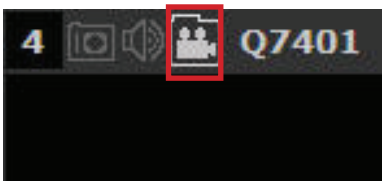
This function quickly displays the most recent event recordings from the selected channels, displaying the most recent result top down. You may click "Update" to update the list to display the most recent result



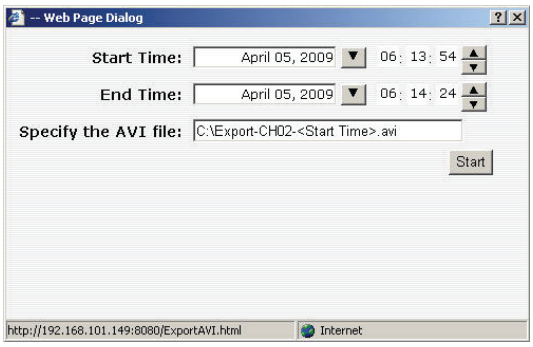
2.2 Export Playback Videos to AVI Files

User can export the recorded playback videos stored on the NVR to a local computer and save them in AVI file format. The files can then be played on the PC by a 3rd party media player such as VLC player or Windows Media player.

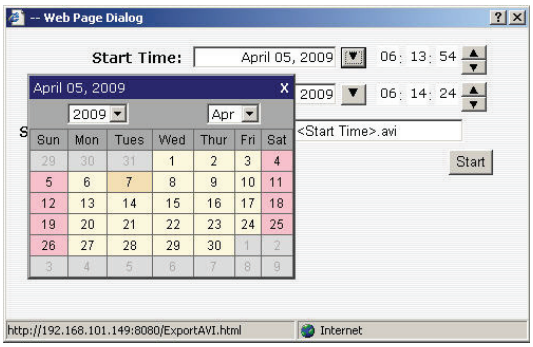
Once you locate the recorded videos with steps described in the previous section, hit the "Export AVI" button on a video window of the video you wish to export.



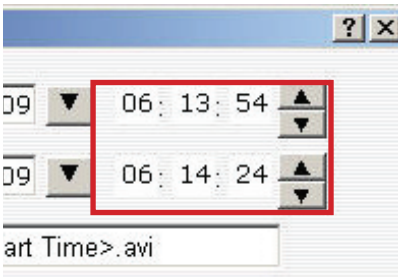
A new dialog will pop up and allows you to speficy the time frame (or length) of the video you wish to export



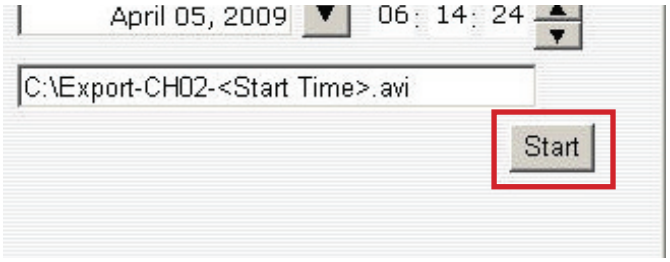
Click the button to pull down the calendar to help you specify the month, date and the year



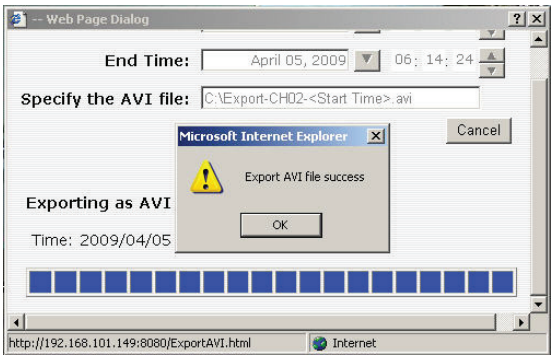
Specify the starting and ending hours of the video by entering numbers in the text boxes



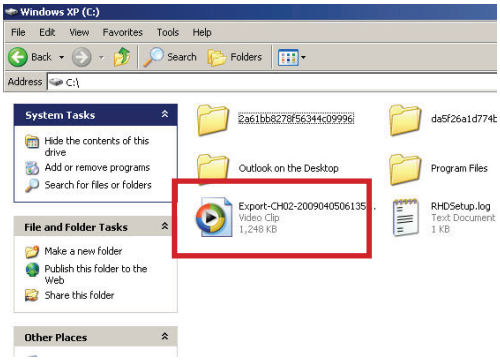
Hit the "Start" button to start exporting. The file will be automatically named and saved under the C:\ partition



You will be notified once the process is completed successfully



The exported AVI file will be saved under the C partition

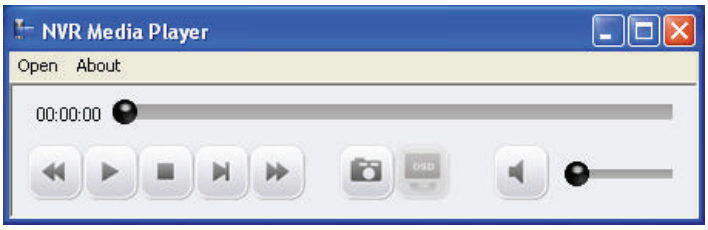


** ffdshow is required in order to play the exported AVI file with Windows Media Player. You can get it at "http://sourceforge.net/projects/ffdshow-tryout/" to download the "ffdshow_beta6_rev2527_20081219.exe"*

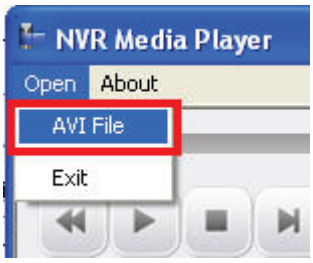
2.3 Play Export Playback Videos with NVR Media Player

You can also use the SEEnergy NVR Media Player that is available on the CD to play the exported AVI files. This can save you the trouble of installing third-party media player or codecs when playing the exported AVI videos.

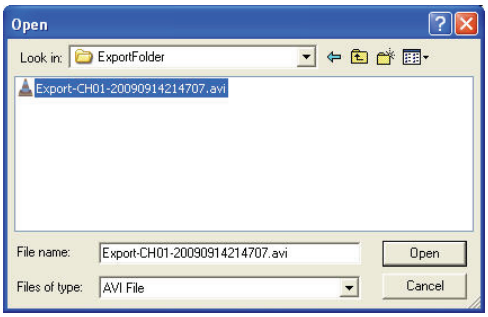
Run the NVR Media Player on the CD:



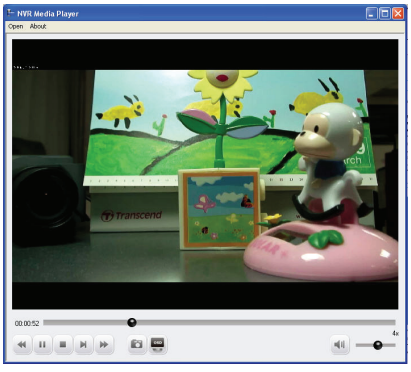
Click "Open" >> "AVI File"



Locate the exported AVI file, and click "open". (normally under "C:\ExportFolder)"



The video will then start playing



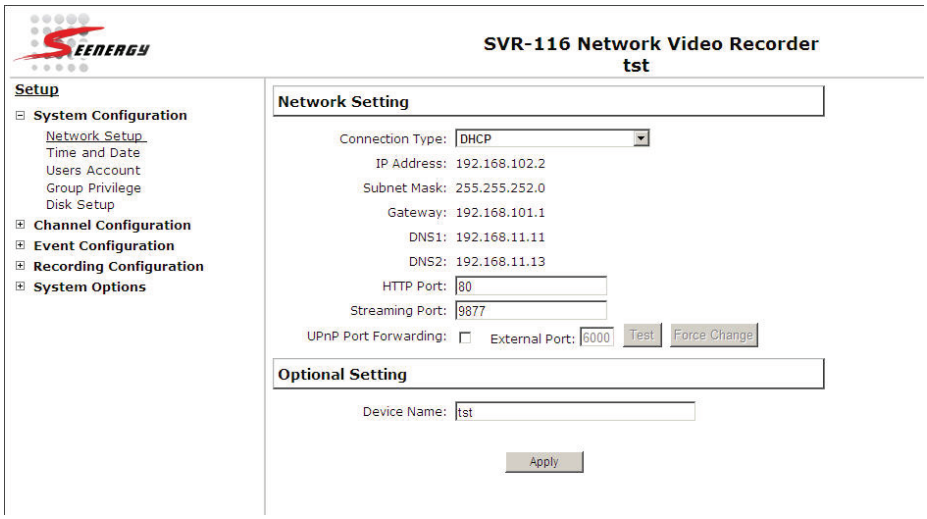
NVR Media Player
Open
About
Transcend
00:00:52
4x
video play control bar
Volume Control
Audio Control (click to enable/disable)
video play control buttons:
Rewind/Pause (Play)/Stop/Next Frame/Fast Forward/
Screenshot/Display OSD
video play time
Video Play Speed

3. System Setup

3.1 System Configurations

The "System Configurations" page provides users options to setup the device quickly and properly. After properly configuring all settings in all the sub-pages, users should expect a fully working network video recorder that is ready to manage cameras on the network. We will start by configuring its network settings to make sure it works correctly in your network. Next, we will help you adjust the system time so videos will be recorder with correct timestamp. To better secure the system for unwanted disturbance, we will guide you on setting up user's account and privileges to prevent settings gets altered by users other than the system administrator. Lastly, we will tell you what you should expect after installing a hard disk and how to prepare the hard disk for the video recording.

3.1.1 Network Settings

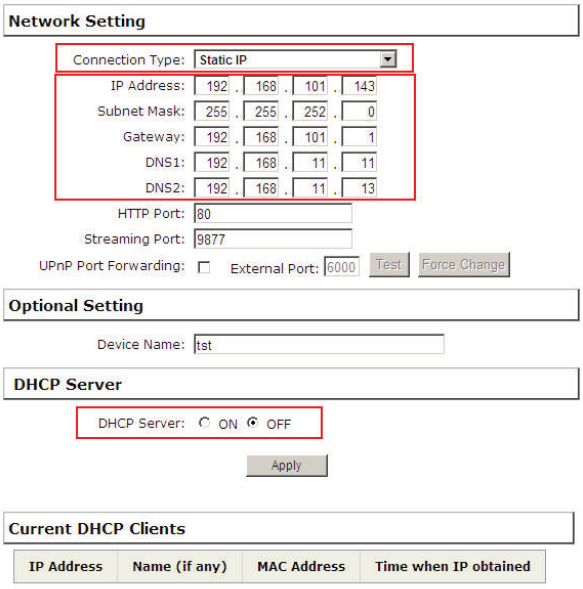


You need to adjust settings in this page for the device to work properly in your network. It is critical that settings here are configured correctly based on your network configurations so that the recorder can be administered through the local area network and cameras can be connected from it.

By default, the recorder is set to obtain IP address from DHCP server, it should be sufficient in most network environments, and most likely you should not need to alter anything in this page. To locate the recorder, simply use the SEEnergy IP Utility with steps described in page 12.

If you wish to set the recorder to use a static IP address in your local area network,

1. Choose "Static IP" from the "Connection Type" drop-down menu
2. Enter the IP address, subnet mask, default gateway address and DNS server address for the recorder
3. Enable "DHCP Server" under "DHCP Server" if you wish to use the recorder as a DHCP server, or leave it disabled if there is already a DHCP server in the network
4. Click Apply for the settings to take effect

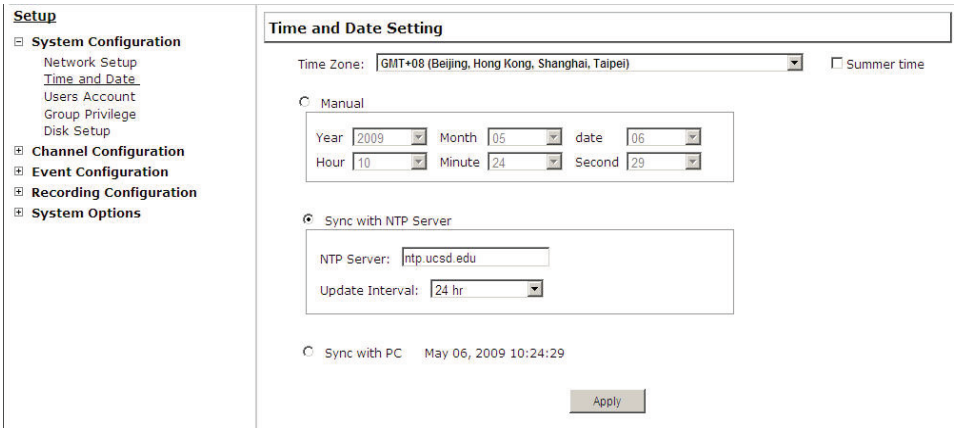

Network Setting
Connection Type: Static IP
IP Address: 192 . 168 . 101 . 143
Subnet Mask: 255 . 255 . 252 . 0
Gateway: 192 . 168 . 101 . 1
DNS1: 192 . 168 . 11 . 11
DNS2: 192 . 168 . 11 . 13
HTTP Port: 80
Streaming Port: 9877
UPnP Port Forwarding: External Port: 6000 Test Force Change
Optional Setting
Device Name: tst
DHCP Server
DHCP Server: ON OFF
Apply
Current DHCP Clients
IP Address
Name (if any)
MAC Address
Time when IP obtained

The recorder can detect the presence of a DHCP server upon startup. It sets itself to use static IP address if there is no DHCP server currently presented in the network. Its DHCP server function is also turned on at the same time to assign IP addresses to cameras that are later connected to the network

o You can manually turn off the DHCP server function if you wish to use a separate DHCP server

Change the recorder's IP address would require the recorder to restart. Restart the device under "system Options" >> "Maintenance" for the settings to take effect.

3.1.2 Time and Date



Set the time and date by selecting the time zone according to your location. It is imperative that you set the recorder's time correctly to avoid the following errors:

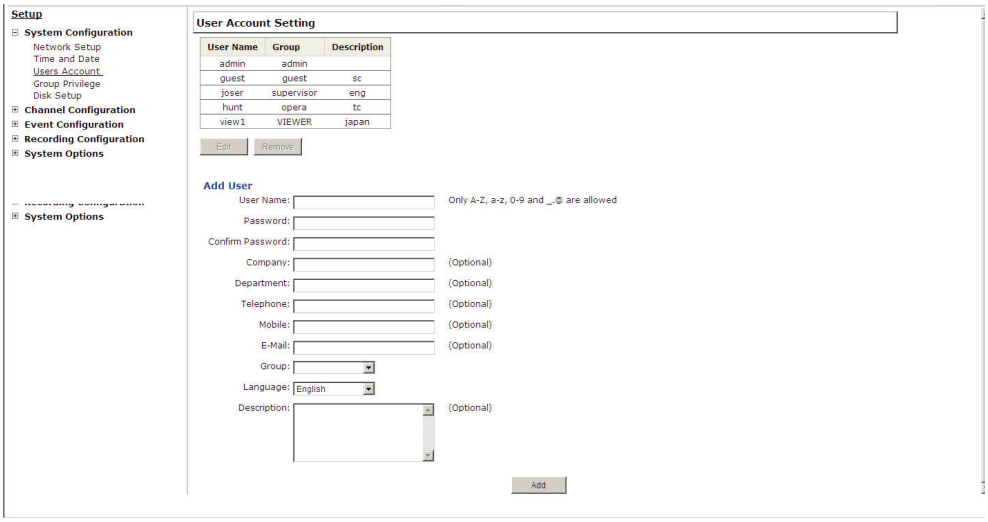
- Incorrect display time for playback videos
- Inconsistent display time of event logs and when they actually occur

After selecting the time zone, choose an option below to set the recorder time

- **Manual** – Use the drop-down list and configure the time manually
- **Sync with NTP server** – enter the hostname or IP address of a valid NTP server and set how often the recorder should synchronize the time with it by using the "Update interval" drop-down menu
- **Sync with PC** – Check this option to synchronize the recorder time with the PC that you are currently using to access the recorder

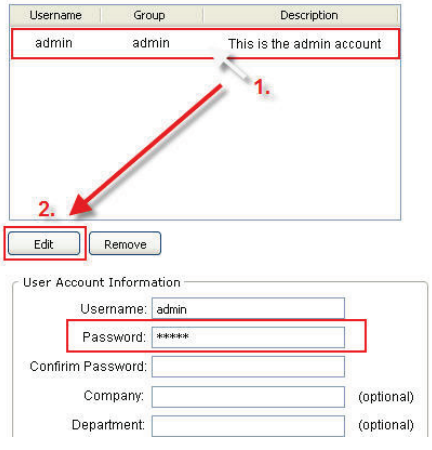
3.1.3 User Account

The recorder can be accessed by multiple users simultaneously. You can add, remove, and edit users by using options provided in this page to keep user information organized. Each recorder comes with a built-in "admin" account with password "admin". It's highly recommended to change the password upon your initial login.



To change the password of the "admin" account:

1. Click and highlight the "admin" account in the account list and click "Edit"
2. Its information should be displayed in "User Account Information"
3. Enter a new password in the "Password" field and enter it again in "Confirm Password"

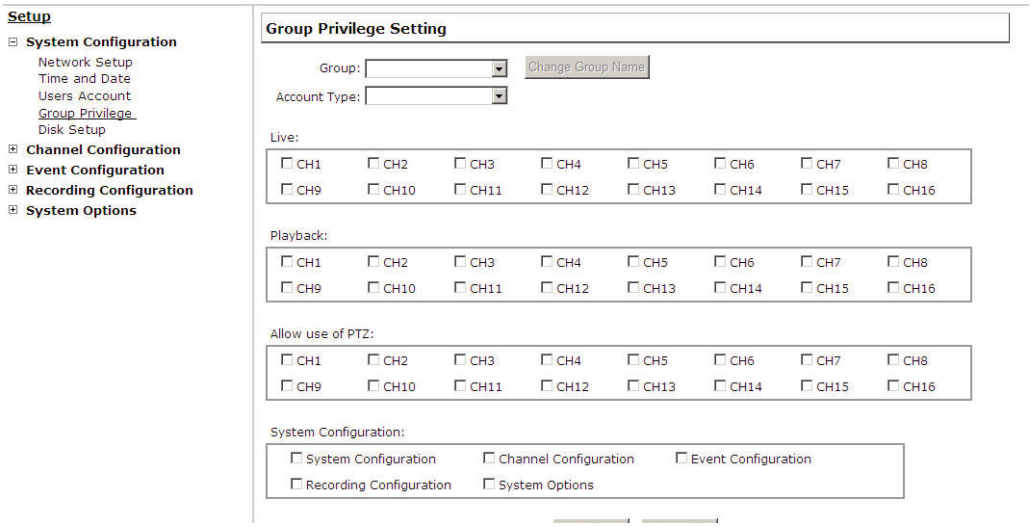


To add a new user:

- Enter a username and password in "User Account Information". All other fields are optional for your own reference.
- Select a group from the "Group" drop-down menu to assign the new user to a particular group
- Enter a short description for the account if you wish
- Click "Apply" to finish configuration

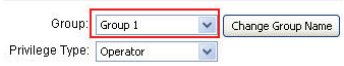
3.1.4 Group Privilege

Group Privilege is where you can create multiple customized access policies for situations if you need the recorder to be accessed by users other than the administrator. You can do so by creating a group, and then remove access privileges for certain configuration pages or cameras. Users that are created and assigned to this group will have limited access instead of full administration rights.

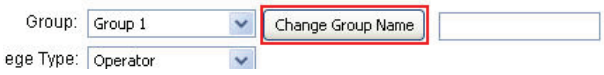


The recorder comes with seven built-in groups and five built-in privilege profiles, except the "admin" and the "guest" accounts; the other five groups are fully customizable or you can simply assign a group with one of the default privilege profiles. You can, however, assign more than one users to the "admin" account if you wish to do so. The guest account comes with a "view-only" privilege in the "Live View" page, and users in this group do not have the power to make any changes in the "Live View" page or have access to pages other than the "Live View" page.

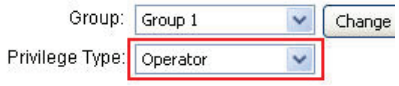
To create a group, select a group from the "Group" drop-down



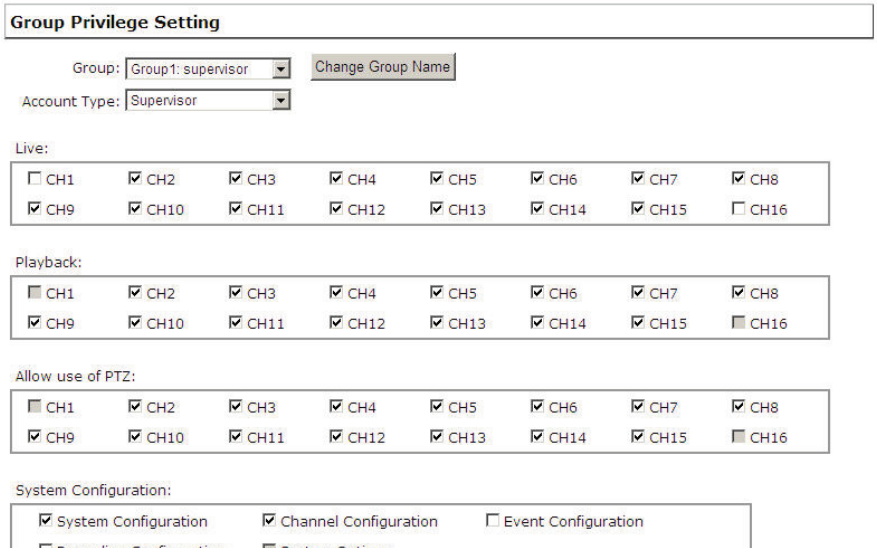
You can change the group name by clicking the "Change Group Name" button. A text box will be displayed for you to enter the new group



Choose what type of privilege you would like this group to have from the "Privilege Type" drop-down menu



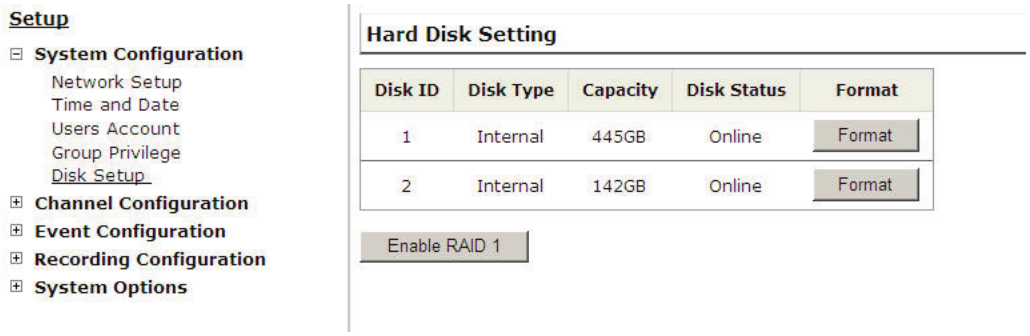
Its access privilege will then be displayed. You can alter its settings by allowing or denying access to other cameras using the checkboxes instead of accepting the defaults



3.1.5 Disk Setup

Once you install a hard disk to the recorder, you would need to initialize it so that it can be ready for recording. You can obtain basic information about the disk you installed in this page

To initialize it, simply click the "Format" button



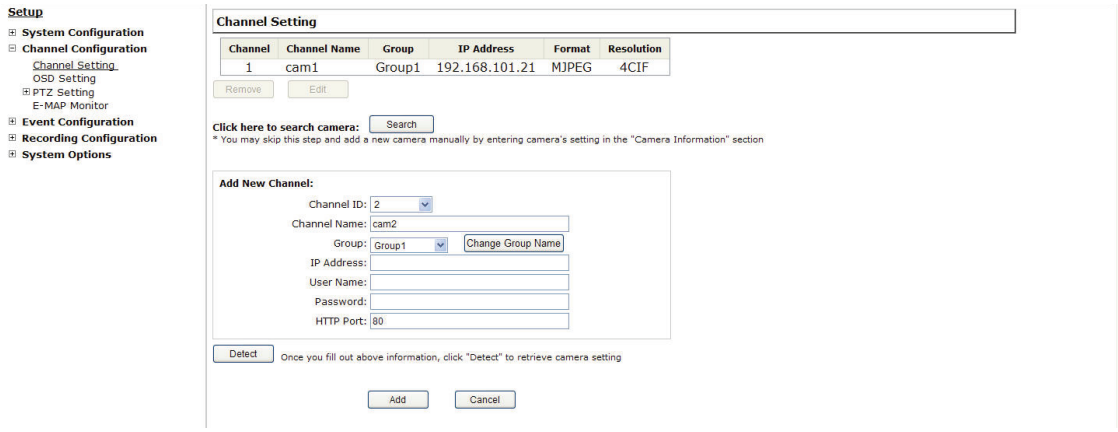
You can also connect external USB thumb drive to the recorder for firmware upgrade.

To obtain detail information about the disk, go to "System Options" >> "Disk Status"

3.2 Channel Configurations

3.2.1 Add a Camera

The NVR provides two options for adding a new camera. Users have the option to let the recorder automatically find the cameras or it is possible to enter camera's information and add it manually.

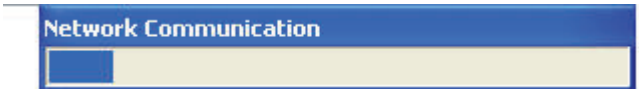


Automatic Search:

1. Click the "Search" button to perform the camera search. You should be prompted to install Active Control component in order for the search to function properly. Go ahead and click "Install"

Internet Explorer - Security Warning
Do you want to install this software?
Name: ActiveX Control of Media Client
Publisher: Seenergy Co., Ltd.
More options
Install
Don't Install
While files from the Internet can be useful, this file type can potentially harm your computer. Only install software from publishers you trust. What's the risk?

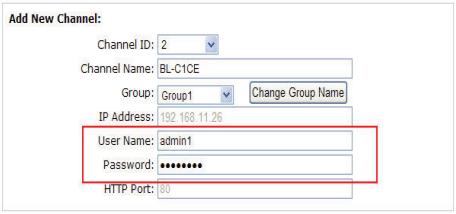
2. After that, the search should begin and its status should be displayed:



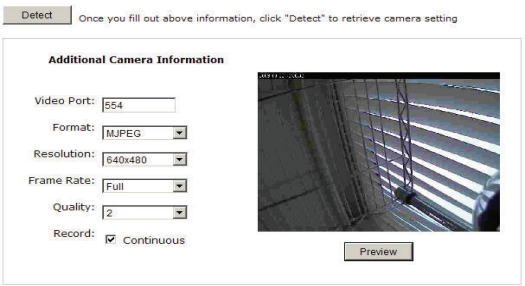
3. Found cameras should be listed and simply select a camera from the list and press "Configure"

AXIS P3301 192.168.101.86 80
Configure
*Select a camera from search result and click "Configure" to configure setting below.

4. Its corresponding information should be displayed in the "Camera Information" section. Enter its username and password and select the channel ID and name the camera.



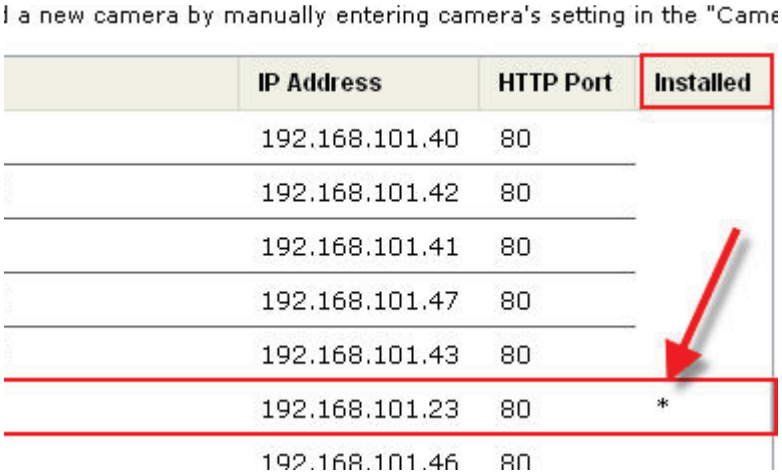
5. Click on "Detect" to establish connection between the recorder and the camera. If connection establishes successfully, camera's detailed information should be polled and displayed as below



6. Adjust its video format, frame rate, resolution or bitrate…etc if you wish. You can also click on the "Preview" to preview the live video of the camera.

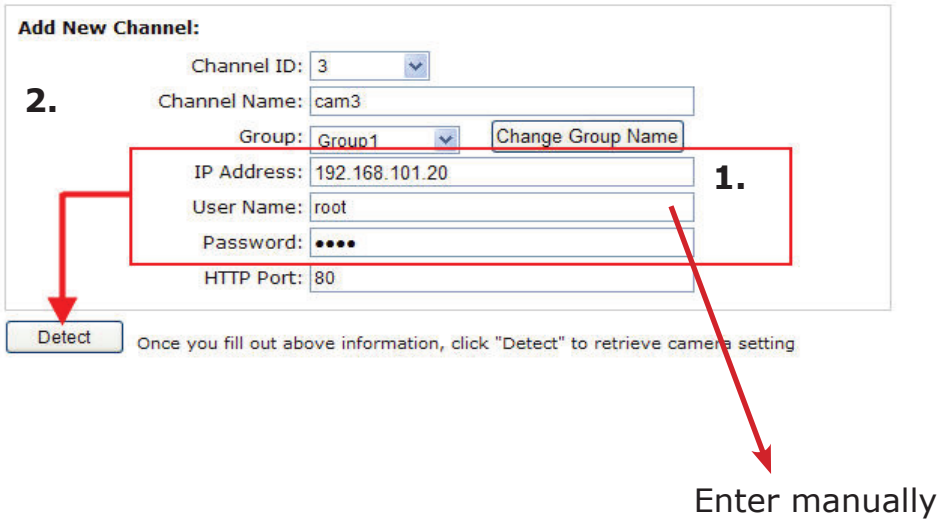
Click "Add" to finish adding the camera

If cameras are marked with "" in the search result, it means those cameras are already configured and connected to the NVR.*



Add a camera manually

Simply follow the instruction described above but instead of using the "Search" function, enter the camera's IP address and credential in the "Camera Information" manually, then follow step 5 ~6 described above.

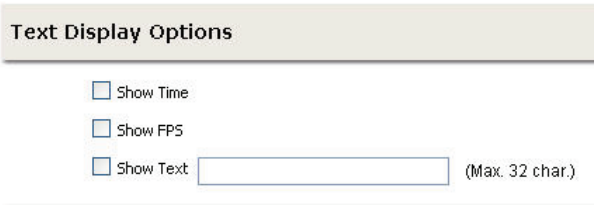


3.2.2 OSD Settings

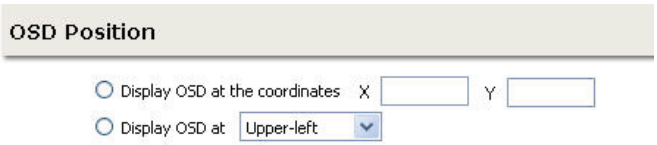
The OSD (On Screen Display) allows users to add informational text message and embed it onto the video. By default, this function is turned off. To add texts to one or more videos,

1. Select a camera you would like to add text to and choose "Display OSD"

2. Choose one or more display options if you would also like the recorder to automatically embed the system time or the frame rate for you. Or simply choose to display a custom message of your own

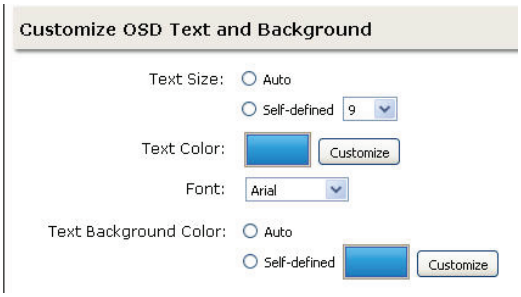


3. Next, define where the text will be displayed by either entering an X/Y coordinate or use the system pre-defined position from the drop-down menu



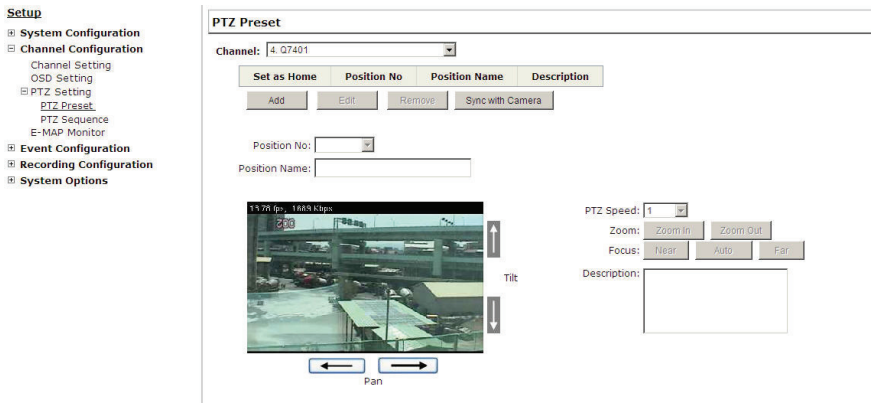
4. Click on the "Preview" button to see the preview of your setting and click "Apply" to save the configuration

- *The texts can be further adjusted with changes to different size, color or font so they can be more visible on the video*



3.2.3 PTZ Preset Settings

The recorder supports PTZ cameras and can set multiple preset points or retrieve and manage preset points that are set in the camera. This is helpful if you need to monitor multiple spots in one area from a particular camera.



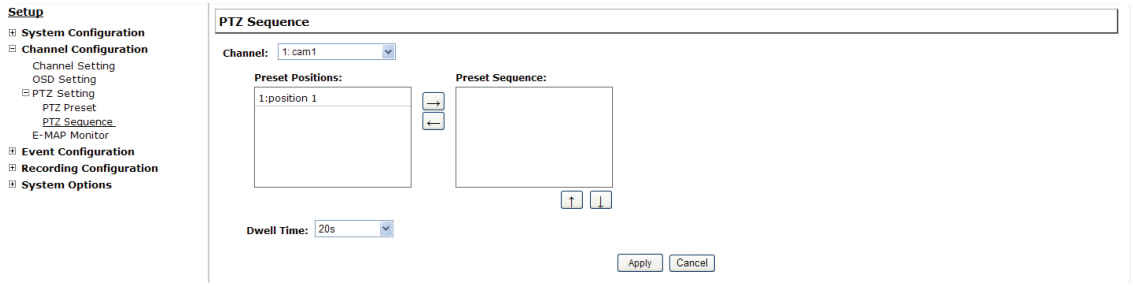
1. To set up PTZ preset points, select a camera from the "Camera" drop-down menu and click "Add"

2. Select a position number for the preset point from the "Position Number" drop-down menu and fill in a name in the "Position Name" field for easier identification

3. Use the PTZ control provided in the configuration page to set the preset point and set the position as the "HOME" position if you wish.
4. Click "Apply" to save the configuration.

3.2.4 PTZ Preset Sequence

Once you have multiple preset points defined for a camera, it is convenient for monitoring to set up the sequencing viewing among those preset point and let the recorder automatically switch between them for you.



To configure preset sequence for a camera, select a channel from the "Channel" drop-down menu

The available preset points should be listed in "Camera Presets" section

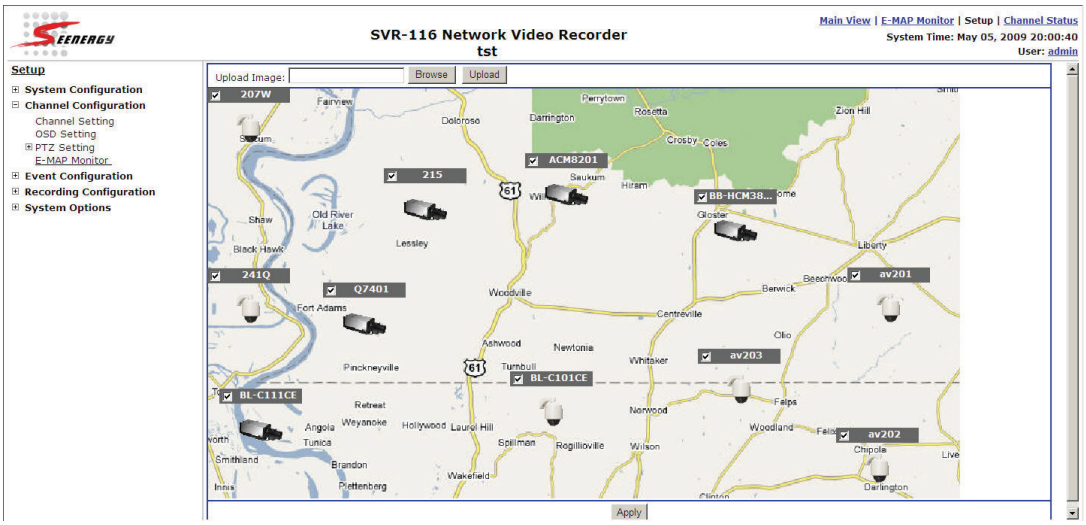
Pick the ones you like for sequence viewing and press the "->" button to move them to the "Preset Sequence" section, then use the up and down buttons to adjust their sequencing positions.

Finally, select a dwell time from the drop-down menu and click "Apply" to save the configuration

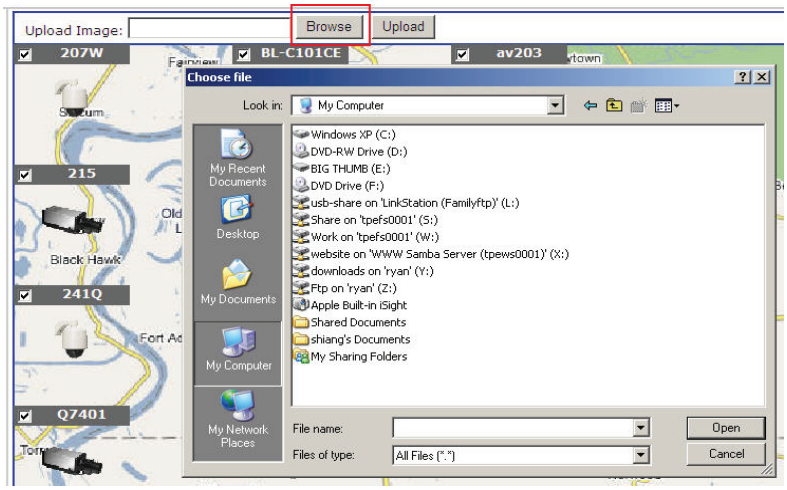
• *To start preset sequence viewing, check page 16 for instructions*

3.2.5 E-Map Monitor

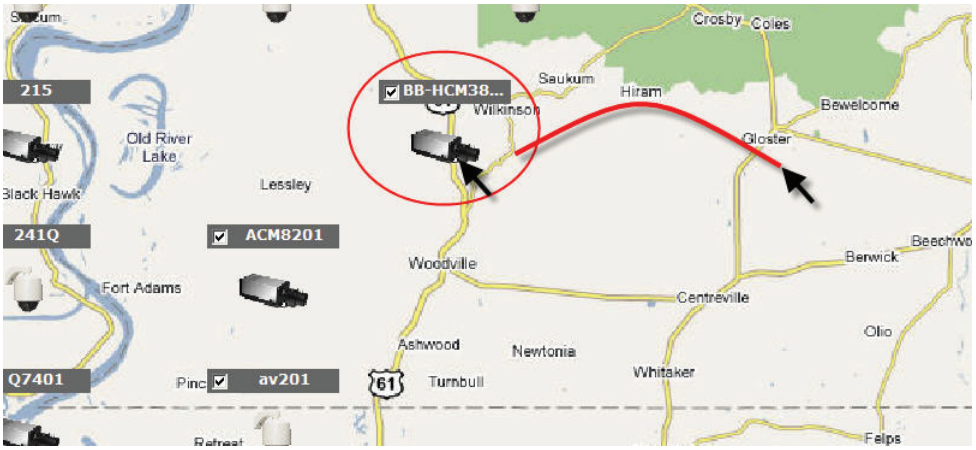
E-Map monitor is a function that alerts users whenever there is an event triggered (e.g. motion detected) from a camera with a geographical perspective. With this function, users can quickly identify which camera has detected an unusual event and where this event is happening. This function works by incorporating the event detection function as well as the recording function, which, as a result, helps users take all the necessary actions when an unusual event occurs.



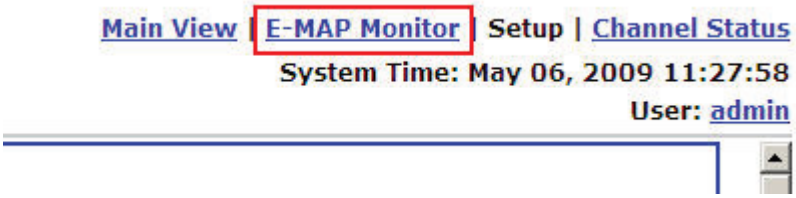
To replace the map, click "Browse" button to locate the new map image file from the local PC and then click "Upload"



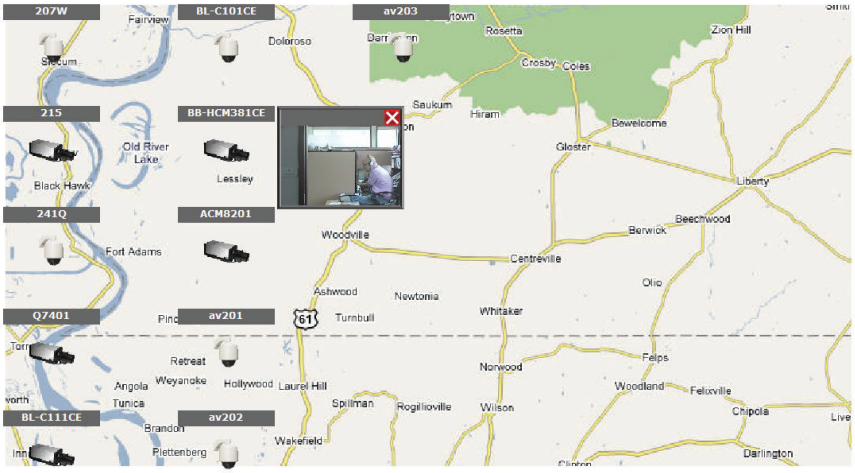
Then click and drag the camera icon to move the camera to define its location.



Access the E-Map Monitor page from the upper-right hand corner menu



When the NVR receives an event triggered from any of the cameras, their videos will be displayed on the E-Map and you can double-click on the video to enlarge it



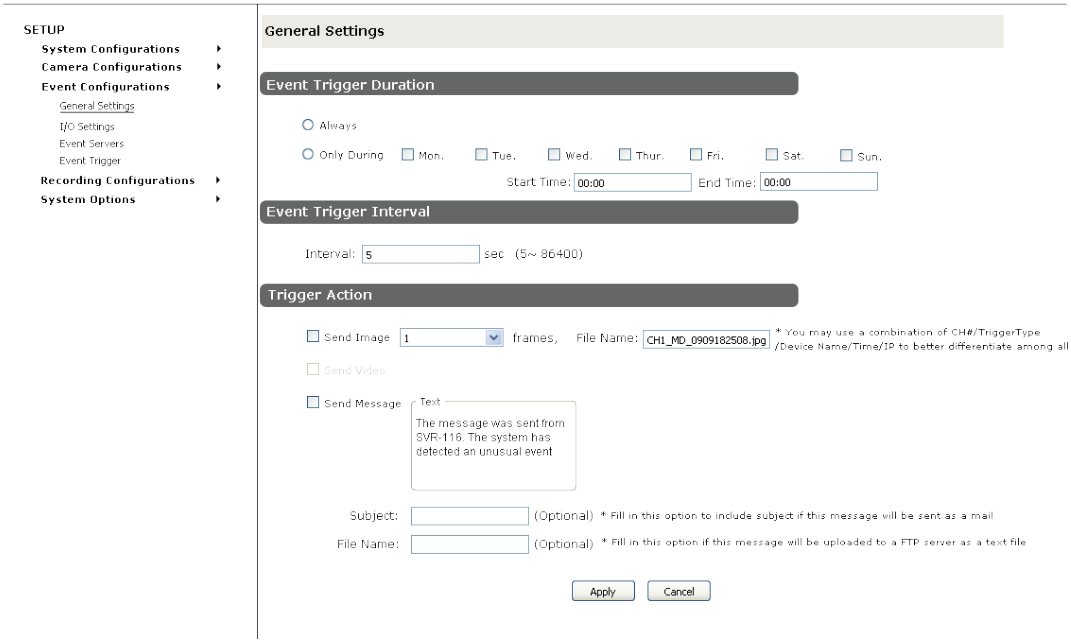
English

3.3 Event Configurations

The "Event Configurations" section allows users to define conditions that constitute an event, its corresponding trigger action and when it will be triggered. Such setting can reduce the management overhead and notify the administrator only when it's necessary.

3.3.1 General Settings

The general settings section can help you quickly configure when an event is triggered, how often events are triggered and the corresponding actions when events are triggered.



Start the event configuration by defining the general settings:

Define when an event will be triggered

• Choose "Always" or "Only during…" under "Event Trigger Duration"

• For the "Only during…" option, choose the days by using the check-box and then define the time range in those days in the "Start Time" and "End Time" fields that you would like the event trigger function to be enabled.

How often an event is triggered

• Set a time interval under "Event Trigger Interval" to define how often events are triggered

Trigger action

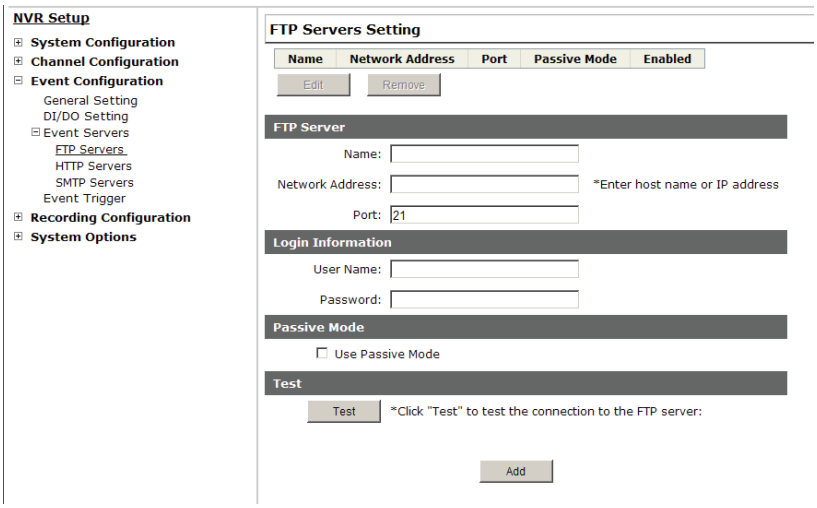
Now that you have the event trigger duration and interval defined, choose what action to be taken during an event trigger:

• You can choose to have the recorder send out the first few frames of the video recorder upon an event is triggered
• You can also choose to have the recorder send out a warning message in e-mail or in txt file format and upload it to an destined FTP server

3.3.2 Event Servers

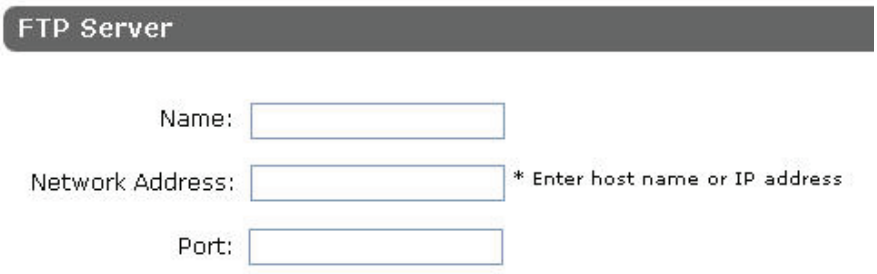
Event servers are to be used with event trigger actions. In case of unusual motion detected by the camera or a disk failure, the recorder can send notification with the acceptable format (image/txt) to a destined event server according to the configuration.

Configuring an FTP server



To add an FTP server,

1. Start by giving a name to the server that you are adding to the recorder
2. Enter the hostname or the IP address of the FTP server
3. Enter the communication port of the FTP server (usually port 21)

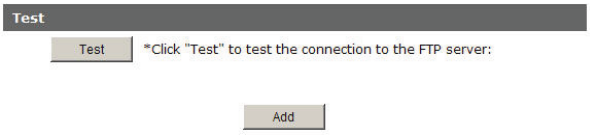


4. Enter the username and password of the FTP server if it's required

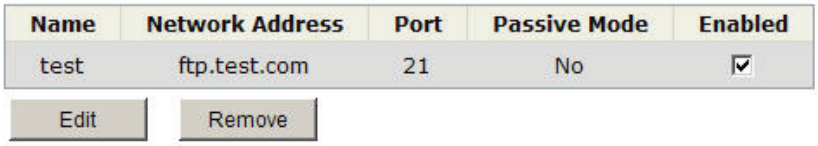
5. Check "Use Passive Mode" if it's required or leave it unchecked to use active mode

6. Click "Test" to verify if all information is entered correctly and the connection to the FTP server can be established successfully

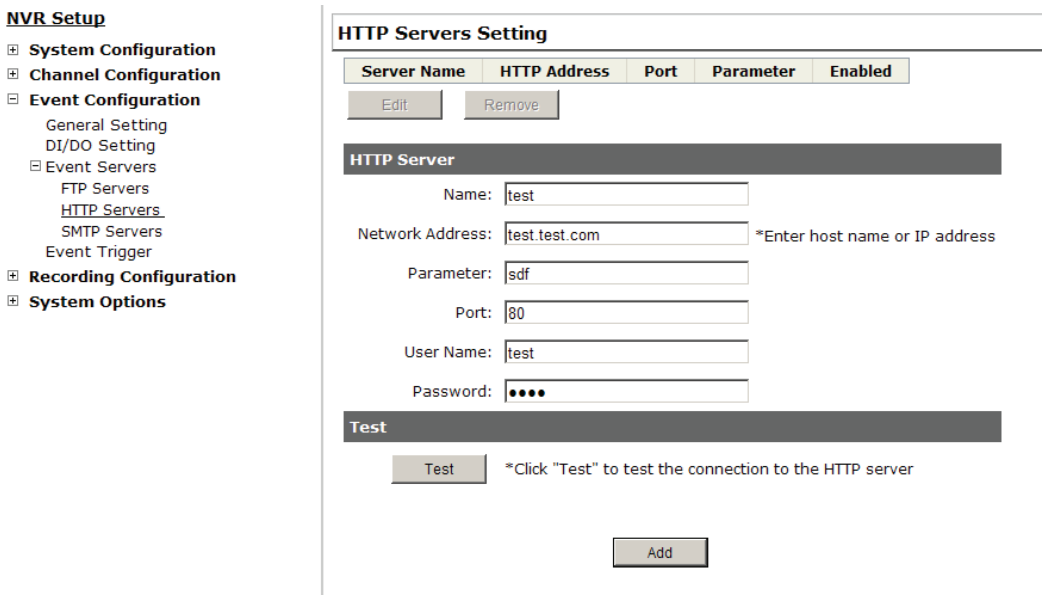
7. Click "Add" for the settings to take effect



If you wish to edit/remove/enable/disable an FTP server, click to highlight one from the profile list and choose the corresponding action button/checkbox

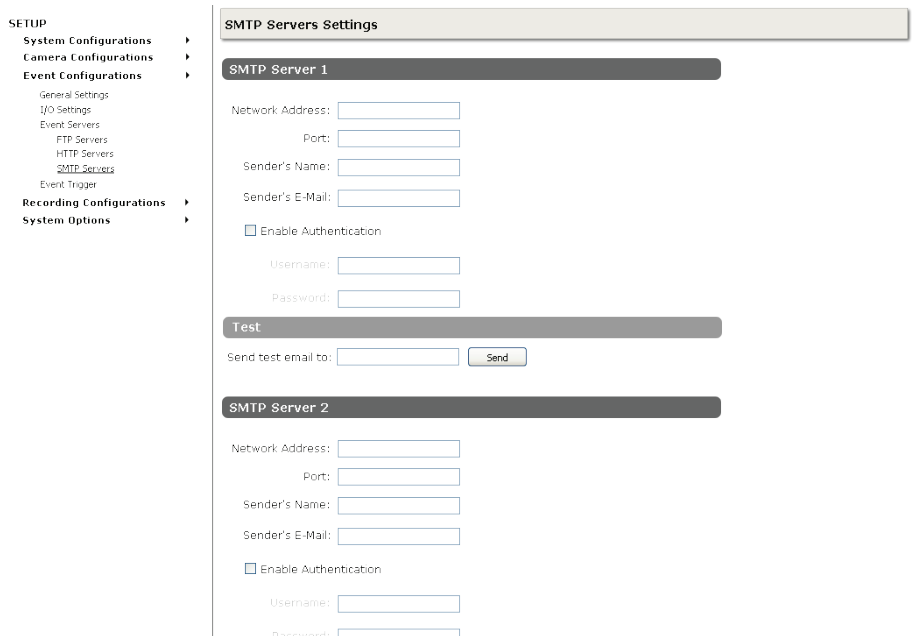


Configuring an HTTP server



1. Start by giving it a name as well
2. Enter the hostname or the IP address of the HTTP server
3. Enter the port that's used to communicate with the server
4. Enter the username and password if it's required
5. Click "Test" to verify if the information is entered correctly
6. Click "Apply" for the settings to take effect

Configuring an SMTP server

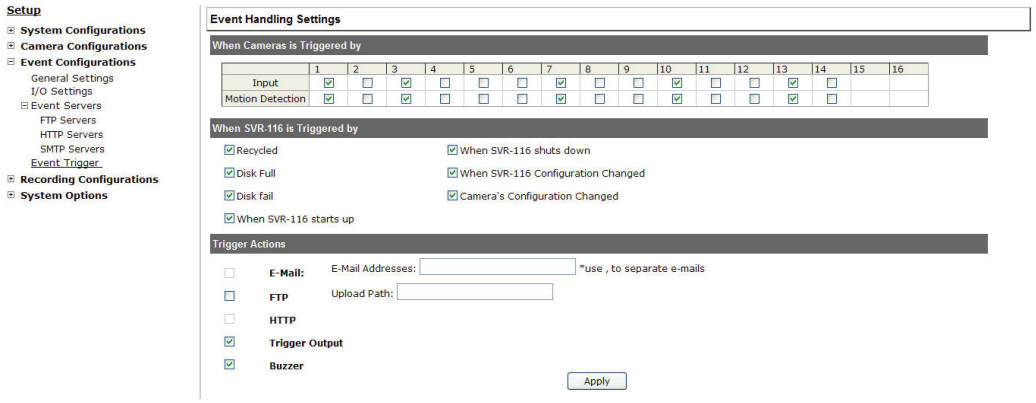


1. Enter the hostname or the IP address of the SMTP server
2. Enter the port of the SMTP server
3. Specify the sender's name in the "Sender's name" field
4. Enter the sender's e-mail address
5. Check "Enable Authentication" and enter the username and password of the SMTP server and as it requires authentication
6. Click "Apply" to save the configuration

3.3.3 Event Triggers

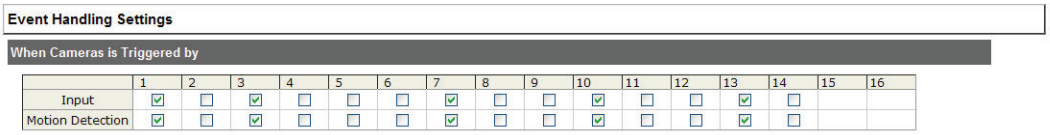
We have finished defining how an event will be triggered and which servers will be receiving notifications in the previous two sections, now we can finish up the event configuration by setting:

- which channels will have event trigger function enabled
- What is considered to be an event
- Where the warnings will be sent to and how they will be sent



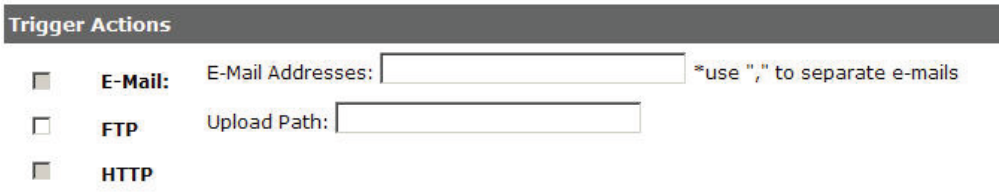
Select Channels to Enable Event Trigger and which type of event should be triggered

- Use the checkbox to enable event trigger on the desired channels



- Define which system events should trigger the recorder to send out notifications

- Define how the notifications will be sent and where they will be sent to



** Event trigger may not work for cameras that are placed outside of your local network or on the Internet until the "UPnP Port Forwarding" is enabled in both the NVR and the router.*

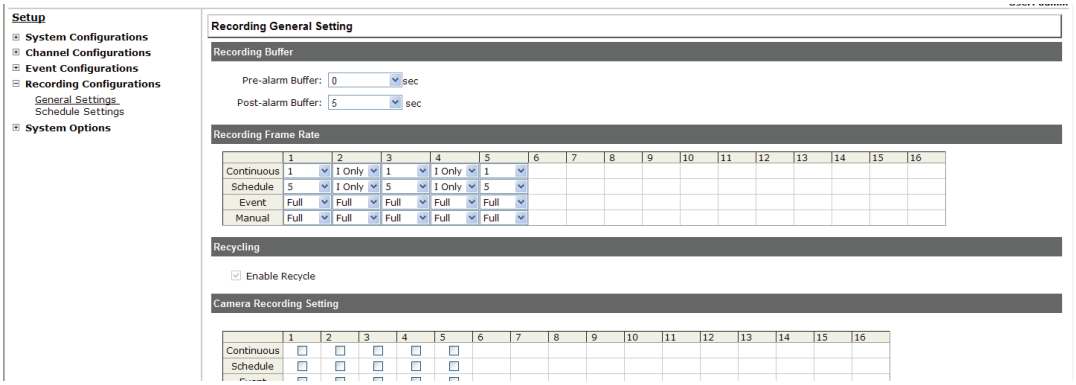
3.4 Recording Configurations

The "recording configurations" gives users the overall control of how and when a recording is performed and the quality of different types of recordings performed on each channels. It can help the recorder to operate with sufficient system resource by performing recording only when it's necessary with adjustable recording frame rate.

3.4.1 General Settings

You can define the following in "General Settings":

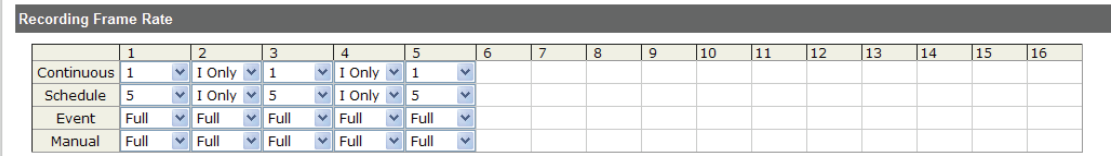
- Pre-Alarm/Post-Alarm recording length
- Recording frame rate
- Enable/disable different recording types on different cameras



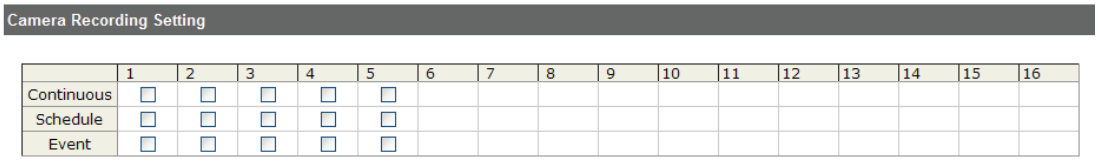
The "recording buffer" allows user to define "pre-alarm" and "post-alarm" time for event recordings. The "pre-alarm" time sets the NVR to record in advance when an event is triggered. The "post-alarm" time sets the NVR to continue recording for a period of time after an event trigger is finished.

** The "Pre-alarm" function only works when the "Continueous" recording is also activated.*

Recording frame rate allows you to set different frame rate for different types of recording instead of recording at one frame rate only. Use the drop-down menu and select one of the pre-defined frame rates for a particular recording type

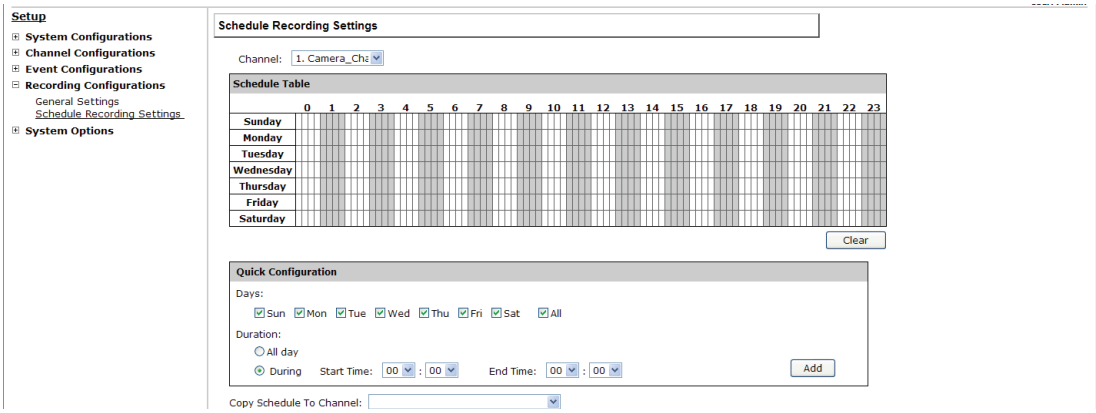

Recording Frame Rate
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Continuous 1 I Only 1 I Only 1
Schedule 5 I Only 5 I Only 5
Event Full Full Full Full Full
Manual Full Full Full Full Full

The section at the bottom allows you to turn on or off a particular recording type on any channels.



3.4.2 Schedule Recording

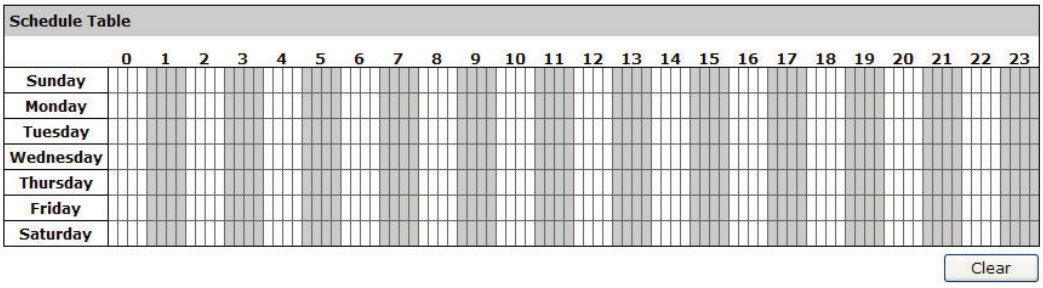
Here you can define the time range of the schedule recording for all channels.



To configure a schedule recording:

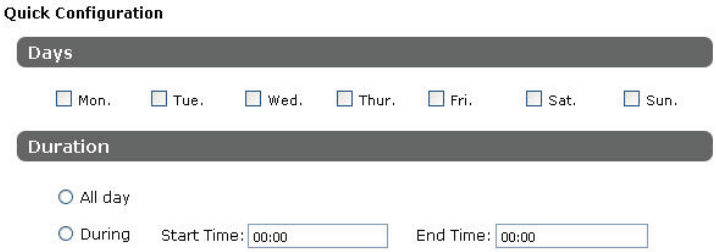
1. Use the "Channel" drop-down menu and select a camera first

2. You can use the schedule table to set the time range. Click the cell boxes then move horizontally lets you set what hours to perform recording during a day. Click and move vertically lets you set what days to perform recording at a specific time.

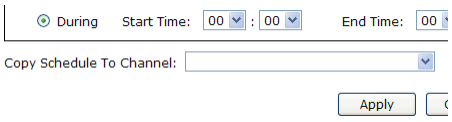


** Each cell box represents 15 minutes of time. Click one or more boxes to omit consecutive recording*

3. You can also use the "Quick Configuration" to define recording time range instead of clicking cell boxex one by one on the time table. Simply check what days you would like to perform recording and specify the recording duration by either choosing "All Day" or enter a start and end time for specific recording duration.



4. Select the "Copy to" option if you would like to set the same recording schedule to another camera.

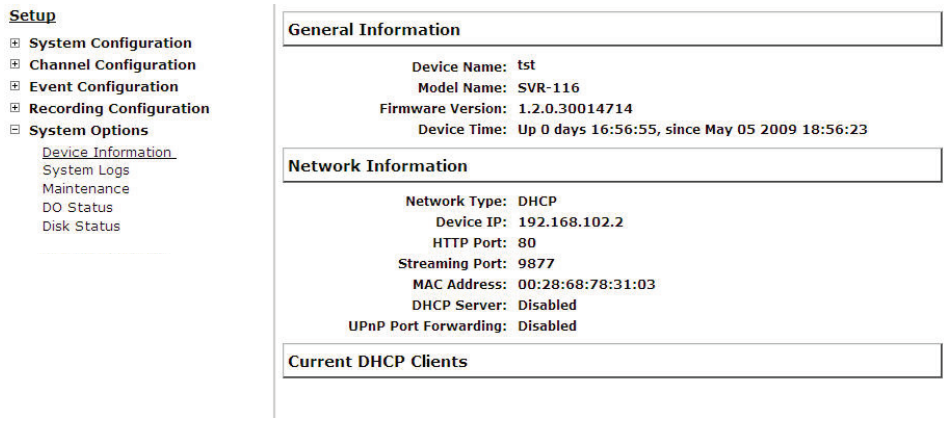


3.5 System Options

System Options gives users a glance of the overall system status and allows users to perform maintenance tasks such as upgrading firmware, restore/backup device settings or reboot device ….etc.

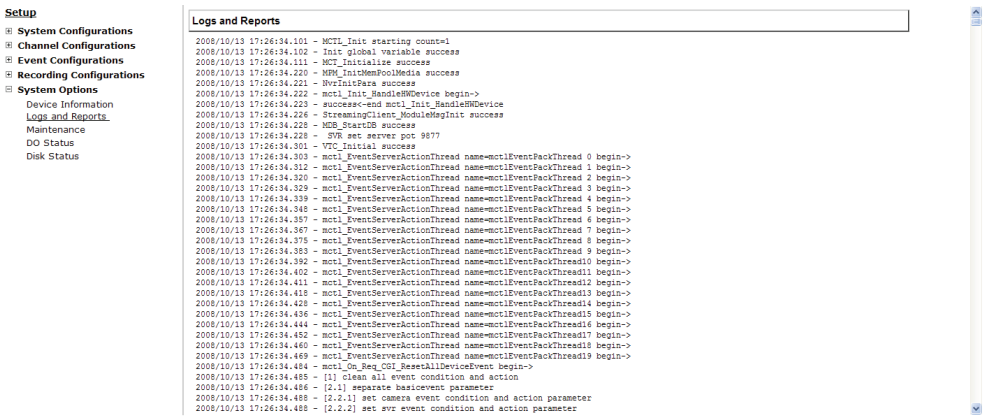
3.5.1 Device Information

The "Device Information" provides the general information of the device such as firmware version and system time. It also provides information of the current network settings and status.



3.5.2 Logs and Reports

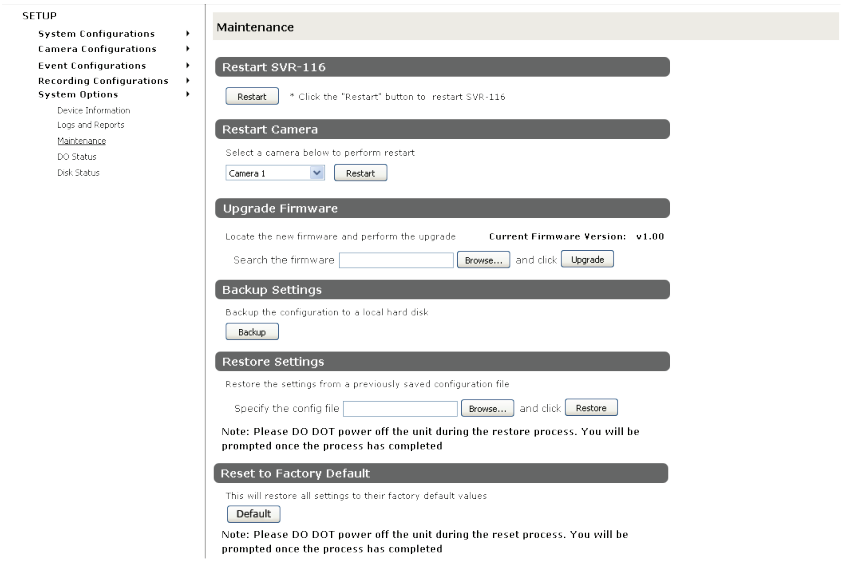
"Logs and Reports" keeps a record of what's been happening to the device and provides basic information for troubleshooting


Setup
System Configurations
Channel Configurations
Event Configurations
Recording Configurations
System Options
Device Information
Logs and Reports
Maintenance
DO Status
Disk Status
Logs and Reports
2008/10/13 17:26:34.101 - MCTL_Init starting count=1
2008/10/13 17:26:34.102 - Init global variable success
2008/10/13 17:26:34.111 - MCT_Initialize success
2008/10/13 17:26:34.220 - MPM_InitMemPoolMedia success
2008/10/13 17:26:34.221 - NvrInitPara success
2008/10/13 17:26:34.222 - mctl_Init_HandleHWDevice begin->
2008/10/13 17:26:34.223 - success<-end mctl_Init_HandleHWDevice
2008/10/13 17:26:34.226 - StreamingClient_ModuleMsgInit success
2008/10/13 17:26:34.228 - NDB_StartDB success
2008/10/13 17:26:34.228 - SVR set server pot 9877
2008/10/13 17:26:34.301 - VTC_Initial success
2008/10/13 17:26:34.303 - mctl_EventServerActionThread name=mctlEventPackThread 0 begin->
2008/10/13 17:26:34.312 - mctl_EventServerActionThread name=mctlEventPackThread 1 begin->
2008/10/13 17:26:34.320 - mctl_EventServerActionThread name=mctlEventPackThread 2 begin->
2008/10/13 17:26:34.329 - mctl_EventServerActionThread name=mctlEventPackThread 3 begin->
2008/10/13 17:26:34.339 - mctl_EventServerActionThread name=mctlEventPackThread 4 begin->
2008/10/13 17:26:34.348 - mctl_EventServerActionThread name=mctlEventPackThread 5 begin->
2008/10/13 17:26:34.357 - mctl_EventServerActionThread name=mctlEventPackThread 6 begin->
2008/10/13 17:26:34.367 - mctl_EventServerActionThread name=mctlEventPackThread 7 begin->
2008/10/13 17:26:34.375 - mctl_EventServerActionThread name=mctlEventPackThread 8 begin->
2008/10/13 17:26:34.383 - mctl_EventServerActionThread name=mctlEventPackThread 9 begin->
2008/10/13 17:26:34.392 - mctl_EventServerActionThread name=mctlEventPackThread10 begin->
2008/10/13 17:26:34.402 - mctl_EventServerActionThread name=mctlEventPackThread11 begin->
2008/10/13 17:26:34.411 - mctl_EventServerActionThread name=mctlEventPackThread12 begin->
2008/10/13 17:26:34.418 - mctl_EventServerActionThread name=mctlEventPackThread13 begin->
2008/10/13 17:26:34.428 - mctl_EventServerActionThread name=mctlEventPackThread14 begin->
2008/10/13 17:26:34.436 - mctl_EventServerActionThread name=mctlEventPackThread15 begin->
2008/10/13 17:26:34.444 - mctl_EventServerActionThread name=mctlEventPackThread16 begin->
2008/10/13 17:26:34.452 - mctl_EventServerActionThread name=mctlEventPackThread17 begin->
2008/10/13 17:26:34.460 - mctl_EventServerActionThread name=mctlEventPackThread18 begin->
2008/10/13 17:26:34.469 - mctl_EventServerActionThread name=mctlEventPackThread19 begin->
2008/10/13 17:26:34.484 - mctl_On_Req_CGI_ResetAllDeviceEvent begin->
2008/10/13 17:26:34.485 - [1] clean all event condition and action
2008/10/13 17:26:34.486 - [2.1] separate basicevent parameter
2008/10/13 17:26:34.488 - [2.2.1] set camera event condition and action parameter
2008/10/13 17:26:34.488 - [2.2.2] set svr event condition and action parameter

3.5.3 Maintenance

"Maintenance" provides functions for users to:

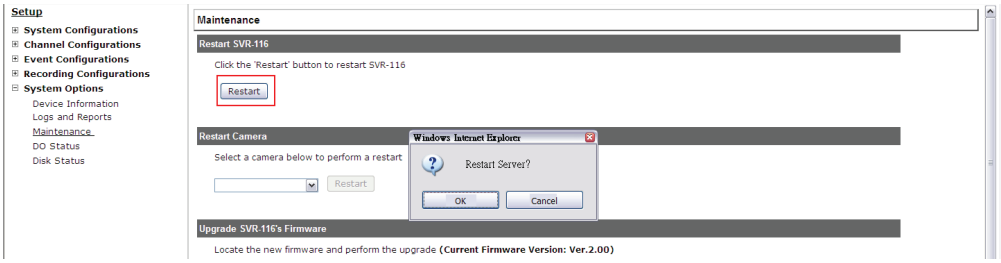
- Reboot the NVR when necessary
- Reboot cameras directly from the NVR
- Perform Firmware Upgrade
- Backup the NVR's settings to a local hard drive
- Restore the NVR's settings from a previously saved configuration file
- Reset the NVR's settings to their factory default values



Reboot the NVR

Reboot the NVR after you upload a new firmware. You would need to manually reboot the system for the new firmware to take effect. Such process would prevent a recording from getting interrupted because the system would not automatically reboot itself after the new firmware is loaded onto the recorder.

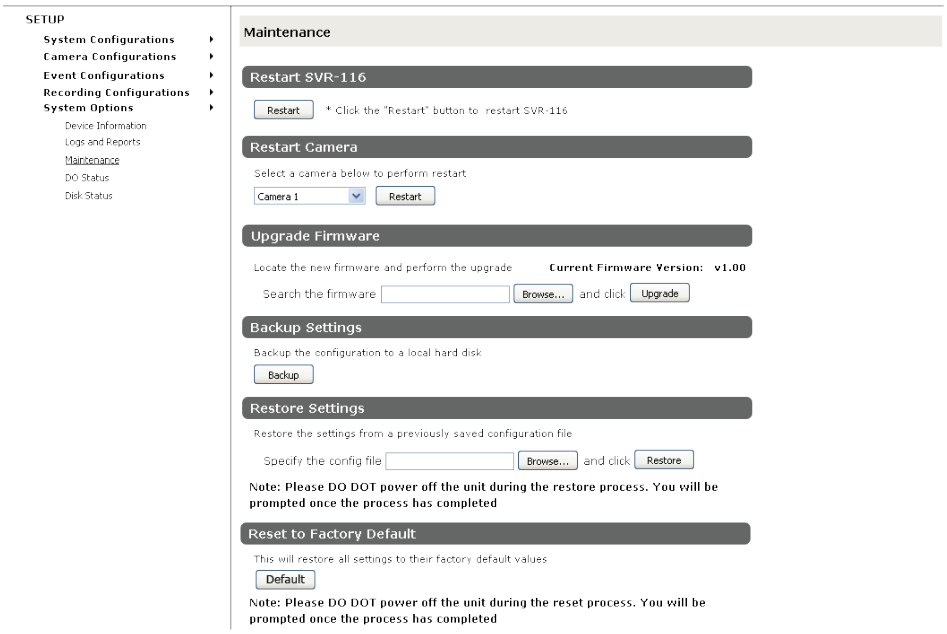
Simply click "Restart" to begin the reboot process and confirm the action:



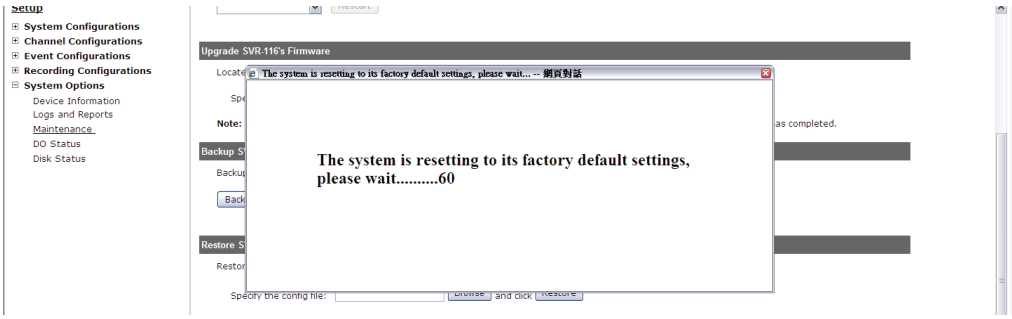
The restart process should be displayed and you should be prompted back to the "Maintenance" page after it is complete:

Reset the NVR to Factory Default

To reset the recorder back to its factory default, click "Default" button and begin the proces:

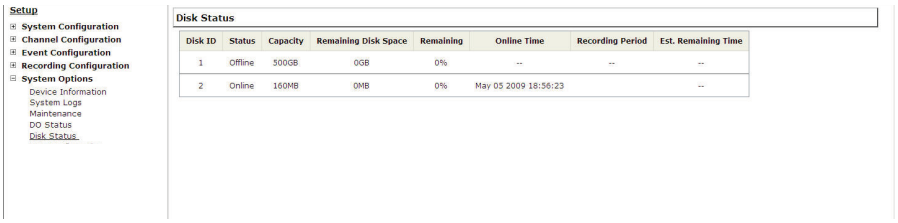


The process should be displayed and you should be prompted back to the "Live View" page after it is complete:



3.5.4 Disk Status

"Disk Status" gives you a more detailed information of the hard drive that is currently installed in the NVR.



EN/MV10/11092009/001

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